=>
Uploading C:\Program Files\Stnexp\Queries\10580610-registry-interm.str

chain nodes :
11 12 13 14
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
8-11 9-12 12-13 12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-11 9-12 12-13 12-14
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS

L4   STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\10580610-registry-interm-2.str

chain nodes :
10 11 12
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
8-10 10-11 10-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 10-11 10-12

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS

```
L6      STRUCTURE UPLOADED

L4              STRUCTURE UPLOADED
L5           31 S L4
L6              STRUCTURE UPLOADED
L7           50 S L6
L8          501 S L4 SSS FULL
L9        28071 S L6 SSS FULL

     FILE 'CAPLUS' ENTERED AT 08:55:17 ON 05 MAY 2008
L10         201 S L8
L11        9784 S L9
L12          31 S L10 AND L11
L13           2 S US200!-580610/APPS
L14           1 S L12 AND L13
L15          30 S L12 NOT L13

     FILE 'REGISTRY' ENTERED AT 08:55:53 ON 05 MAY 2008

=> d l4
L4 HAS NO ANSWERS
L4              STR
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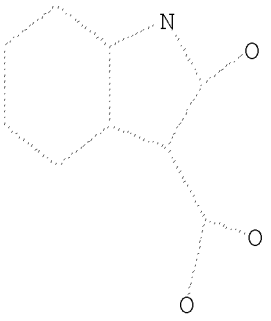


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Structure attributes must be viewed using STN Express query preparation.


=> d l6
L6 HAS NO ANSWERS
L6              STR
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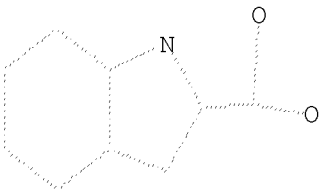


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Structure attributes must be viewed using STN Express query preparation.

L15  ANSWER 1 OF 30  CAPLUS  COPYRIGHT 2008 ACS on STN
```
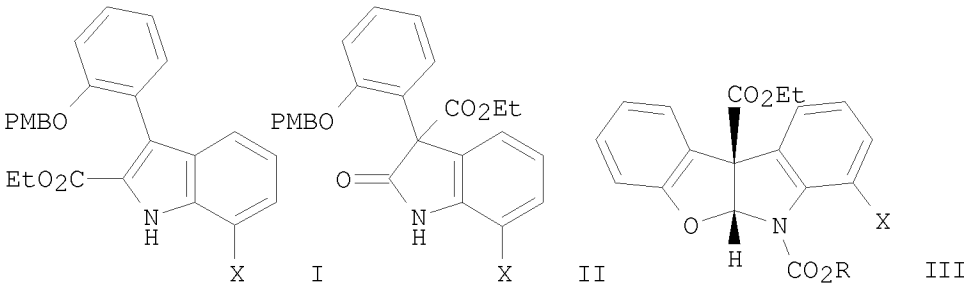
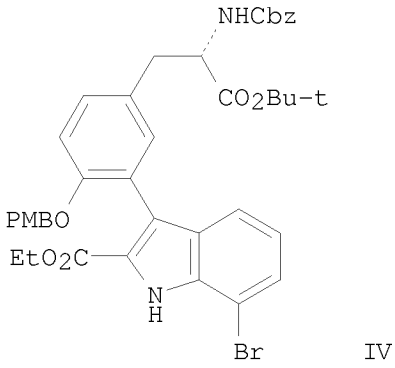

AN 2007:299076 CAPLUS <<LOGINID::20080505>>
DN 146:482222
TI Oxidative Rearrangement of Indoles: A New Approach to the EFHG-Tetracyclic Core of Diazonamide A
AU Poriel, Cyril; Lachia, Mathilde; Wilson, Claire; Davies, James R.; Moody, Christopher J.
CS Department of Chemistry, University of Exeter, Exeter, EX4 4QD, UK
SO Journal of Organic Chemistry (2007), 72(8), 2978-2987
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 146:482222
GI



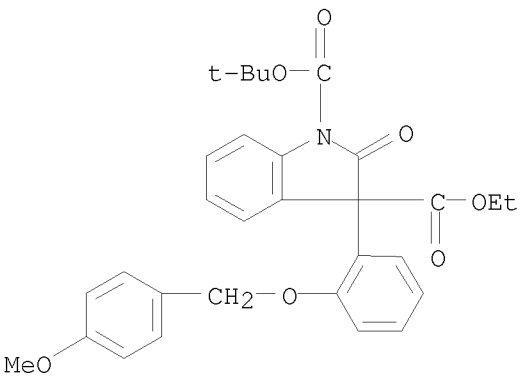


AB A new approach to the ring EFHG-tetracyclic core fragment of the marine secondary metabolite diazonamide A is described. The route is based on the oxidative rearrangement of 3-arylindole-2-carboxylates. Thus, a range of 3-arylindole-2-carboxylates, for example I (X = H, Br; PMB = CH2C6H4OMe-4), underwent rearrangement to the corresponding 3,3-disubstituted oxindoles, for example II, with migration of the ester group upon treatment with tert-Bu hypochlorite followed by acid. II with a 3-[2-(4-methoxybenzyloxy)]phenyl substituent underwent cyclization to the tetracyclic aminals III (X = H, R = t-Bu; X = H, R = CH2CH:CH2; X = Br, R = CH2CH:CH2) following N-protection, reduction, and treatment with methanesulfonic anhydride. The methodol. was applied to tyrosine-indole derivative IV to give the EFHG-tetracyclic core of diazonamide A.
IT 935846-44-9P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(crystal structure; preparation of tetracyclic ring EFHG core of diazonamide A using oxidative rearrangement of arylindolecarboxylates)

RN 935846-44-9 CAPLUS

CN 1H-Indole-1,3-dicarboxylic acid, 2,3-dihydro-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-2-oxo-, 1-(1,1-dimethylethyl) 3-ethyl ester (CA INDEX NAME)



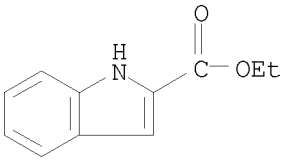
IT 3770-50-1 16732-69-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of tetracyclic ring EFHG core of diazonamide A using oxidative rearrangement of arylindolecarboxylates)

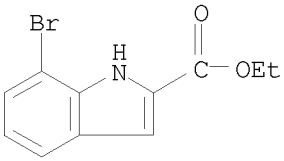
RN 3770-50-1 CAPLUS

CN 1H-Indole-2-carboxylic acid, ethyl ester (CA INDEX NAME)



RN 16732-69-7 CAPLUS

CN 1H-Indole-2-carboxylic acid, 7-bromo-, ethyl ester (CA INDEX NAME)

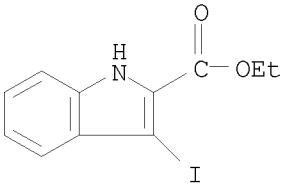


IT 117637-79-3P 935846-32-5P 935846-35-8P 935846-38-1P 935846-40-5P 935846-41-6P 935846-42-7P 935846-43-8P 935846-45-0P 935846-46-1P 935846-54-1P 935846-55-2P 935846-58-5P

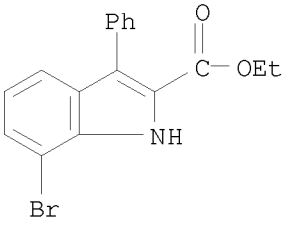
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tetracyclic ring EFHG core of diazonamide A using oxidative rearrangement of arylindolecarboxylates)

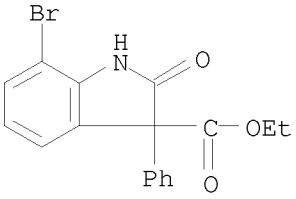
RN 117637-79-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-iodo-, ethyl ester (CA INDEX NAME)



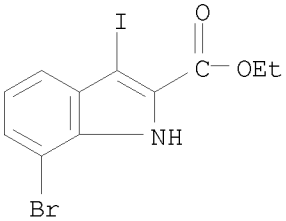
RN 935846-32-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-bromo-3-phenyl-, ethyl ester (CA INDEX NAME)



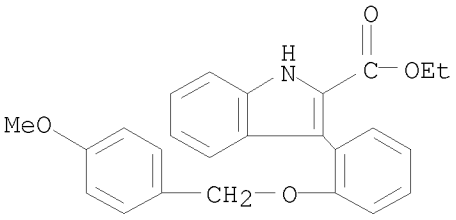
RN 935846-35-8 CAPLUS
CN 1H-Indole-3-carboxylic acid, 7-bromo-2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



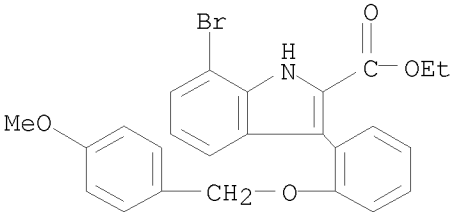
RN 935846-38-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-bromo-3-iodo-, ethyl ester (CA INDEX NAME)



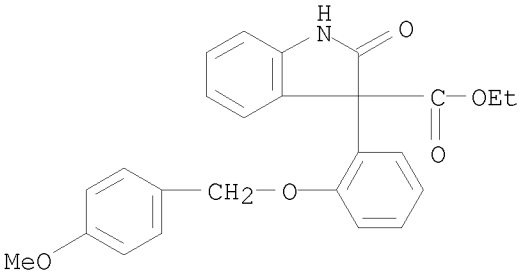
RN 935846-40-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-[2-[(4-methoxyphenyl)methoxy]phenyl]-, ethyl ester (CA INDEX NAME)



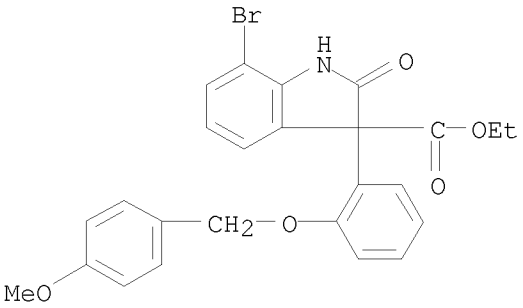
RN 935846-41-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-bromo-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-, ethyl ester (CA INDEX NAME)



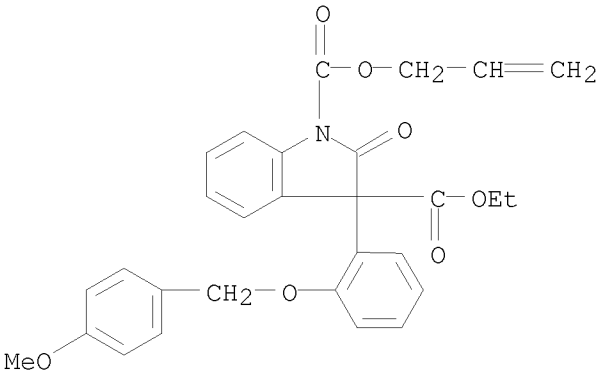
RN 935846-42-7 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-2-oxo-, ethyl ester (CA INDEX NAME)



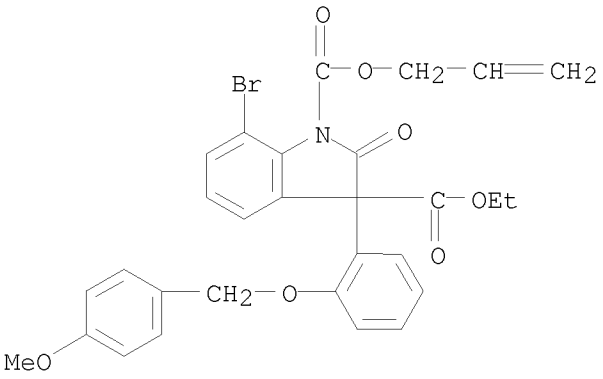
RN 935846-43-8 CAPLUS
CN 1H-Indole-3-carboxylic acid, 7-bromo-2,3-dihydro-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-2-oxo-, ethyl ester (CA INDEX NAME)



RN 935846-45-0 CAPLUS
CN 1H-Indole-1,3-dicarboxylic acid, 2,3-dihydro-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-2-oxo-, 3-ethyl 1-(2-propen-1-yl) ester (CA INDEX NAME)



RN 935846-46-1 CAPLUS
CN 1H-Indole-1,3-dicarboxylic acid, 7-bromo-2,3-dihydro-3-[2-[(4-methoxyphenyl)methoxy]phenyl]-2-oxo-, 3-ethyl 1-(2-propen-1-yl) ester (CA INDEX NAME)

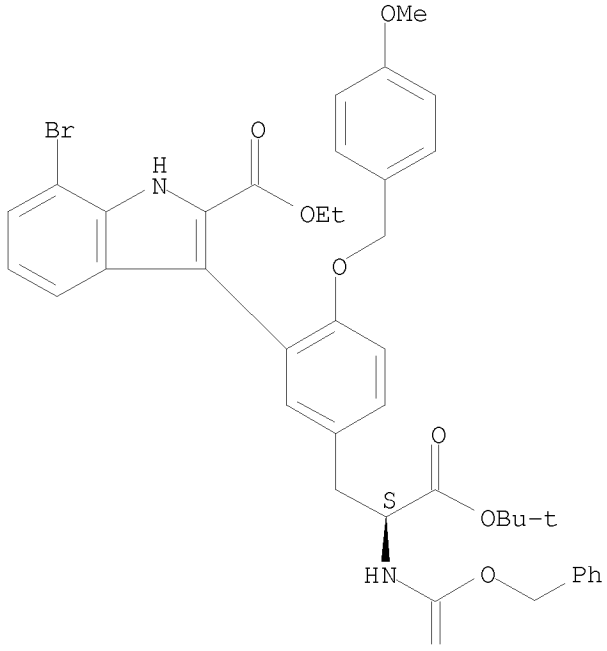


RN 935846-54-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-bromo-3-[5-[(2S)-3-(1,1-dimethylethoxy)-3-oxo-2-[[(phenylmethoxy)carbonyl]amino]propyl]-2-[(4-

methoxyphenyl)methoxy]phenyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A

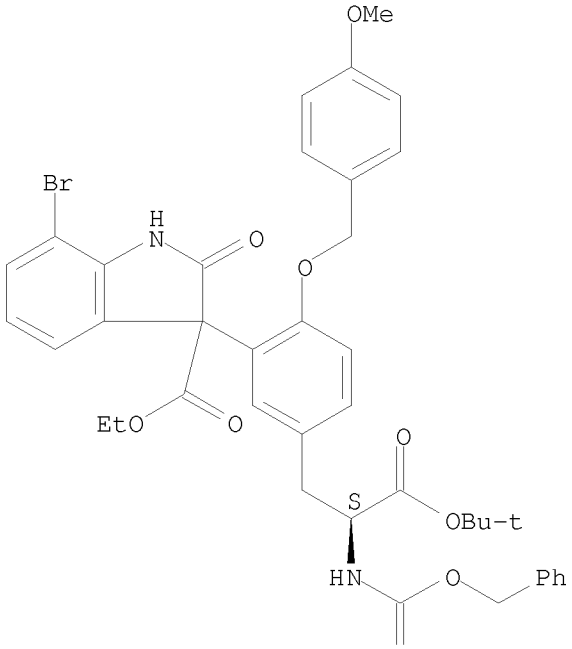


PAGE 2-A

RN 935846-55-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 7-bromo-3-[5-[(2S)-3-(1,1-dimethylethoxy)-3-oxo-2-[[(phenylmethoxy)carbonyl]amino]propyl]-2-[(4-methoxyphenyl)methoxy]phenyl]-2,3-dihydro-2-oxo-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

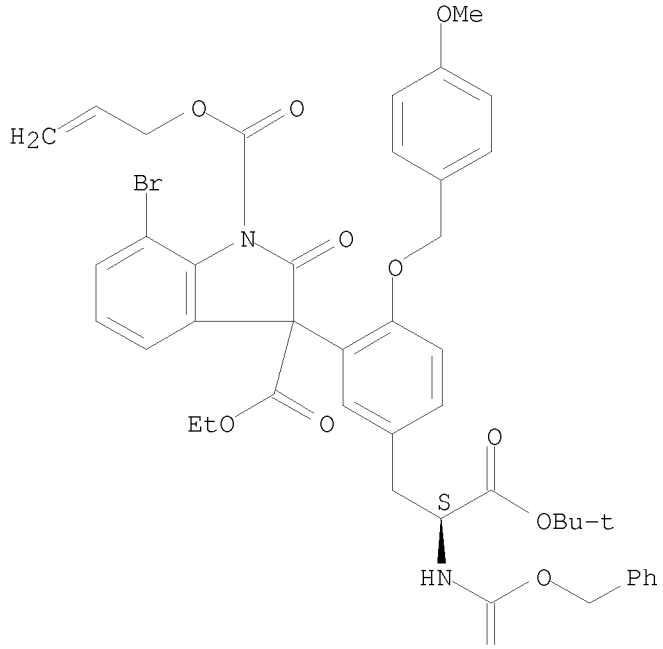


PAGE 2-A

RN 935846-58-5 CAPLUS
CN 1H-Indole-1,3-dicarboxylic acid, 7-bromo-3-[5-[(2S)-3-(1,1-dimethylethoxy)-3-oxo-2-[[(phenylmethoxy)carbonyl]amino]propyl]-2-[(4-methoxyphenyl)methoxy]phenyl]-2,3-dihydro-2-oxo-, 3-ethyl 1-(2-propen-1-yl) ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

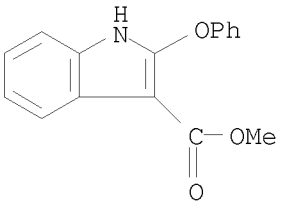


PAGE 2-A

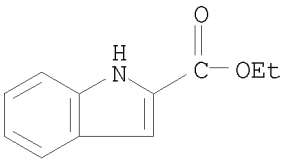
RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:867664 CAPLUS <<LOGINID::20080505>>
DN 140:93957
TI Synthesis of benzothiopyrano[2,3-b]indol-11-one and benzopyrano[2,3-b]indol-11-one
AU Engqvist, Robert; Bergman, Jan
CS Karolinska Institute, Department of Biosciences at Novum, Unit for Organic Chemistry, CNT, Huddinge, SE-141 57, Swed.
SO Tetrahedron (2003), 59(48), 9649-9653
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:93957
AB The fused heterocycles benzothiopyrano[2,3-b]indol-11-one and benzopyrano[2,3-b]indol-11-one, have been prepared from Me 3-indolecarboxylate in two steps.
IT 645388-39-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(cyclization of; preparation of benzothiopyranoindolone and benzopyranoindolone derivs. from their corresponding

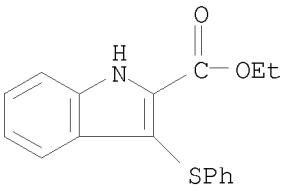
indolecarboxylates)
RN 645388-39-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2-phenoxy-, methyl ester (CA INDEX NAME)



IT 3770-50-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzothiopyranoindolone and benzopyranoindolone derivs. from their corresponding indolecarboxylates)
RN 3770-50-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, ethyl ester (CA INDEX NAME)



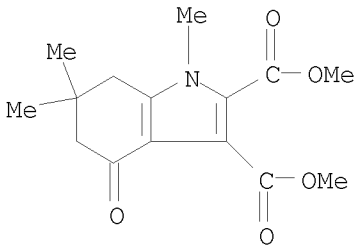
IT 106184-17-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzothiopyranoindolone and benzopyranoindolone derivs. from their corresponding indolecarboxylates)
RN 106184-17-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-(phenylthio)-, ethyl ester (CA INDEX NAME)



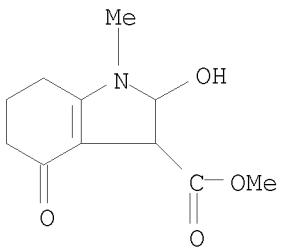
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:18743 CAPLUS <<LOGINID::20080505>>
DN 138:303806
TI 3,3-sigmatropic rearrangements involving N-O bond-cleavage of enehydroxylamine derivatives
AU Reis, Lucinda V.; Lobo, Ana M.; Prabhakar, Sundaresan; Duarte, Mariana P.
CS Departamento de Quimica, CQFB/REQUIMTE, Faculdade de Ciencias e

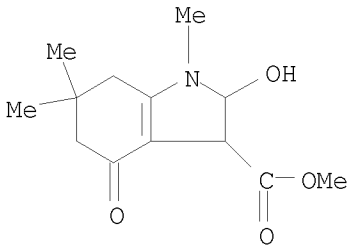
Tecnologia, Universidade Nova de Lisboa, Monte da Caparica, 2829, Port.
SO European Journal of Organic Chemistry (2003), (1), 190-208
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 138:303806
AB Enehydroxylamines, derived from carbocyclic and heterocyclic 1,3-dioxo compds., react with a variety of unsatd. electrophiles to give, in good to excellent yields, substances that in general undergo 3,3-sigmatropic rearrangements either spontaneously or upon heating. In those cases in which such reactions failed, addition of sodium hydride was found to induce the transformation. A study of the rearrangement by use of deuterium-labeled compds. showed that no crossover occurs, indicating the intramol. nature of the process. The method provides 2,3- or 3,4-disubstituted cyclohexenones, 5,6-disubstituted barbiturates and the corresponding fused pyrrole and imidazolinone derivs.
IT 142836-67-7P 156301-06-3P 156301-07-4P
510773-39-4P 510773-40-7P 510773-41-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(sigmatropic rearrangements involving nitrogen-oxygen bond-cleavage of enehydroxylamine derivs.)
RN 142836-67-7 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 4,5,6,7-tetrahydro-1,6,6-trimethyl-4-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



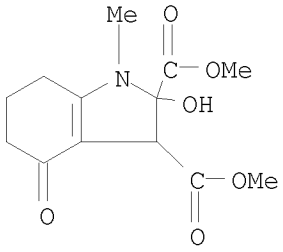
RN 156301-06-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3,4,5,6,7-hexahydro-2-hydroxy-1-methyl-4-oxo-, methyl ester (CA INDEX NAME)



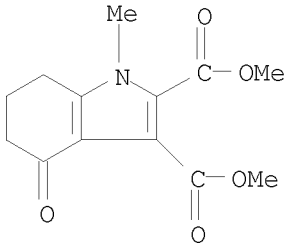
RN 156301-07-4 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3,4,5,6,7-hexahydro-2-hydroxy-1,6,6-trimethyl-4-oxo-, methyl ester (CA INDEX NAME)



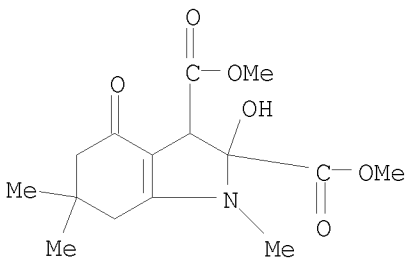
RN 510773-39-4 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 2,3,4,5,6,7-hexahydro-2-hydroxy-1-methyl-4-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



RN 510773-40-7 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 4,5,6,7-tetrahydro-1-methyl-4-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

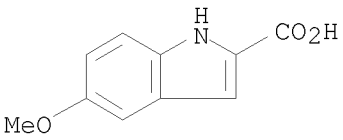


RN 510773-41-8 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 2,3,4,5,6,7-hexahydro-2-hydroxy-1,6,6-trimethyl-4-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

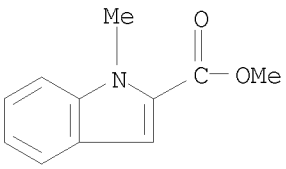


RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

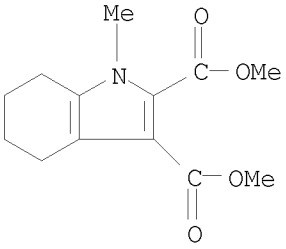
L15 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:861062 CAPLUS <<LOGINID::20080505>>
DN 139:197300
TI Product class 13: indole and its derivatives
AU Joule, J. A.
CS Department of Chemistry, University of Manchester, Manchester, M13 9PL, UK
SO Science of Synthesis (2001), 10, 361-652
CODEN: SSCYJ9
PB Georg Thieme Verlag
DT Journal; General Review
LA English
AB A review of preparation of indoles and its derivs. Covered reactions include cyclization, ring transformation, aromatization and substituent modifications. Subclasses covered include 1H-indol-1-ols, 1,3-dihydro-2H-indol-2-ones, and 1,2-dihydro-3H-indol-3-ones.
IT 4382-54-1 37493-34-8 53252-66-7
153827-71-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of indoles and analogs thereof via cyclization, ring transformation, aromatization and substituent modifications)
RN 4382-54-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy- (CA INDEX NAME)



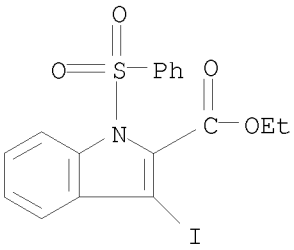
RN 37493-34-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-methyl-, methyl ester (CA INDEX NAME)



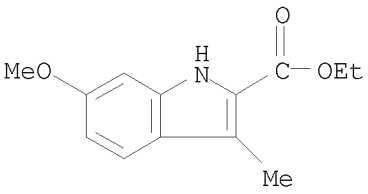
RN 53252-66-7 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 4,5,6,7-tetrahydro-1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 153827-71-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-iodo-1-(phenylsulfonyl)-, ethyl ester (CA INDEX NAME)

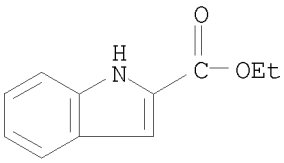


IT 2400-35-3P 3770-50-1P 4966-40-9P
16381-42-3P 16732-64-2P 21139-32-2P
21183-59-5P 36004-74-7P 36800-67-6P
39478-72-3P 39731-09-4P 54781-93-0P
58664-93-0P 66552-21-4P 66552-23-6P
66552-39-4P 66552-40-7P 77069-10-4P
82633-34-9P 91559-45-4P 94527-32-9P
96277-44-0P 104681-05-2P 107517-71-5P
113525-31-8P 119581-01-0P 121045-66-7P
172216-95-4P 172516-96-0P 182180-07-0P
207739-39-7P 207739-53-5P 582319-01-5P
582319-19-5P 582319-34-4P 582319-49-1P
582319-50-4P 582320-02-3P 582320-15-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of indoles and analogs thereof via cyclization, ring transformation, aromatization and substituent modifications)
RN 2400-35-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-methoxy-3-methyl-, ethyl ester (CA INDEX NAME)

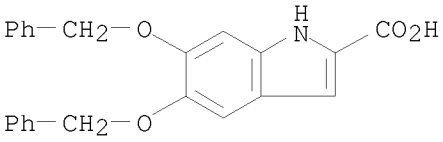


RN 3770-50-1 CAPLUS

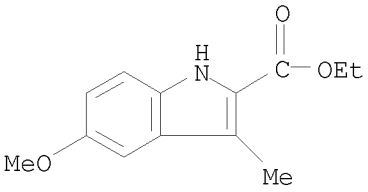
CN 1H-Indole-2-carboxylic acid, ethyl ester (CA INDEX NAME)



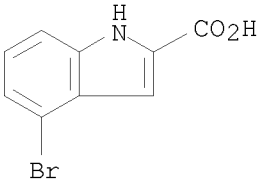
RN 4966-40-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5,6-bis(phenylmethoxy)- (CA INDEX NAME)



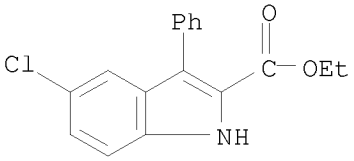
RN 16381-42-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-3-methyl-, ethyl ester (CA INDEX NAME)



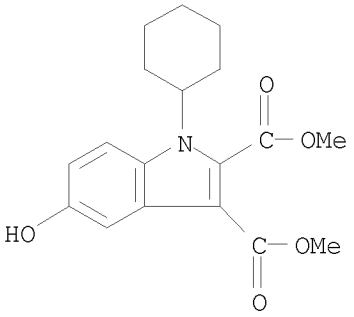
RN 16732-64-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo- (CA INDEX NAME)



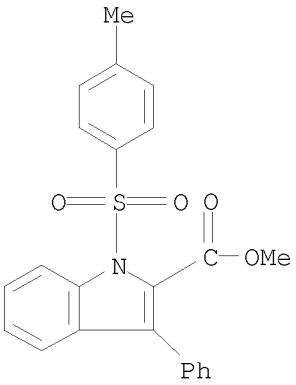
RN 21139-32-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-3-phenyl-, ethyl ester (CA INDEX NAME)



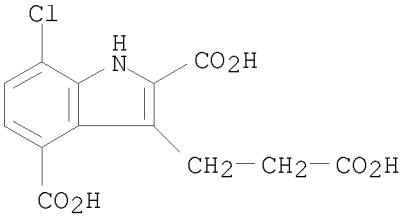
RN 21183-59-5 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-cyclohexyl-5-hydroxy-, dimethyl ester (9CI) (CA INDEX NAME)



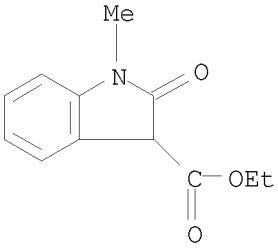
RN 36004-74-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[(4-methylphenyl)sulfonyl]-3-phenyl-, methyl ester (CA INDEX NAME)



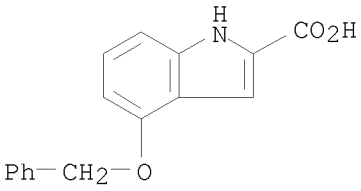
RN 36800-67-6 CAPLUS
CN 1H-Indole-2,4-dicarboxylic acid, 3-(2-carboxyethyl)-7-chloro- (CA INDEX NAME)



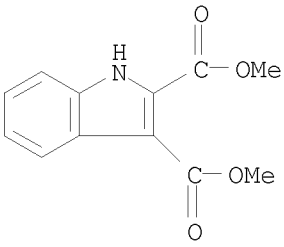
RN 39478-72-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



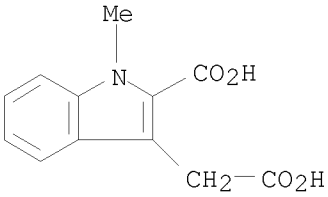
RN 39731-09-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-(phenylmethoxy)- (CA INDEX NAME)



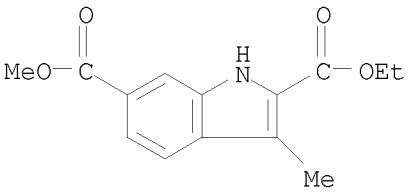
RN 54781-93-0 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 2,3-dimethyl ester (CA INDEX NAME)



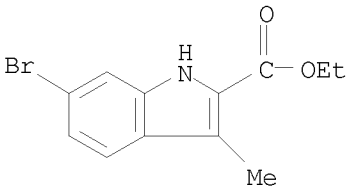
RN 58664-93-0 CAPLUS
CN 1H-Indole-3-acetic acid, 2-carboxy-1-methyl- (CA INDEX NAME)



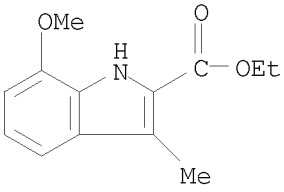
RN 66552-21-4 CAPLUS
CN 1H-Indole-2,6-dicarboxylic acid, 3-methyl-, 2-ethyl 6-methyl ester (CA INDEX NAME)



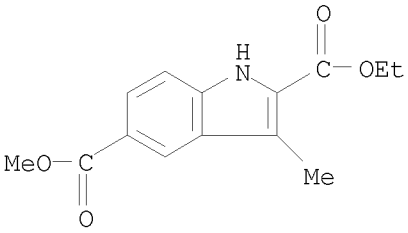
RN 66552-23-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-bromo-3-methyl-, ethyl ester (CA INDEX NAME)



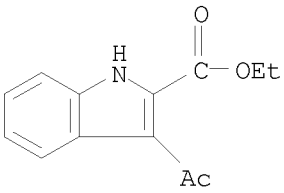
RN 66552-39-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-3-methyl-, ethyl ester (CA INDEX NAME)



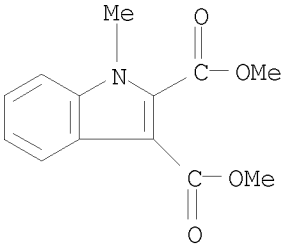
RN 66552-40-7 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 3-methyl-, 2-ethyl 5-methyl ester (CA INDEX NAME)



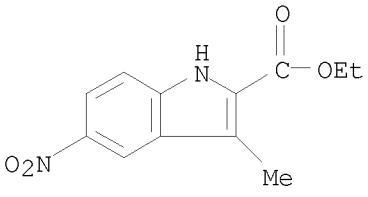
RN 77069-10-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-acetyl-, ethyl ester (CA INDEX NAME)



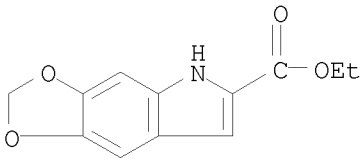
RN 82633-34-9 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



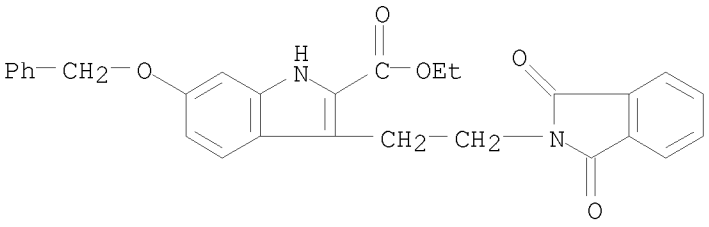
RN 91559-45-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-5-nitro-, ethyl ester (CA INDEX NAME)



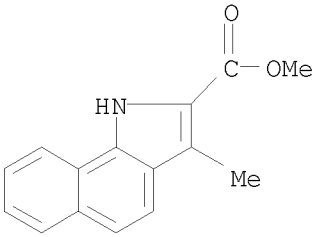
RN 94527-32-9 CAPLUS
CN 5H-1,3-Dioxolo[4,5-f]indole-6-carboxylic acid, ethyl ester (CA INDEX NAME)



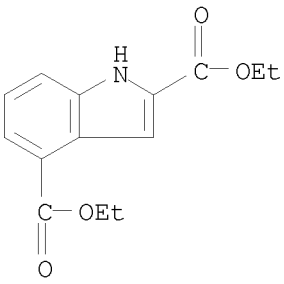
RN 96277-44-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl]-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



RN 104681-05-2 CAPLUS
CN 1H-Benz[g]indole-2-carboxylic acid, 3-methyl-, methyl ester (CA INDEX NAME)

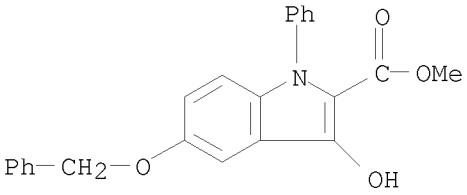


RN 107517-71-5 CAPLUS
CN 1H-Indole-2,4-dicarboxylic acid, diethyl ester (9CI) (CA INDEX NAME)

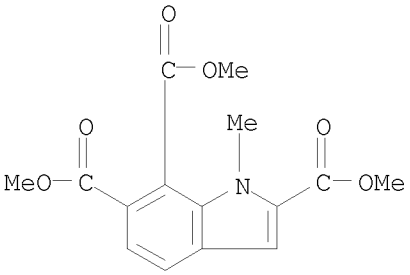


RN 113525-31-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-hydroxy-1-phenyl-5-(phenylmethoxy)-, methyl

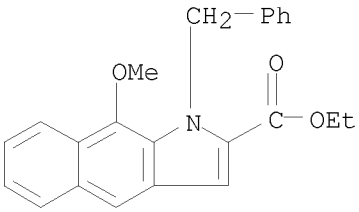
ester (CA INDEX NAME)



RN 119581-01-0 CAPLUS
CN 1H-Indole-2,6,7-tricarboxylic acid, 1-methyl-, trimethyl ester (9CI) (CA INDEX NAME)



RN 121045-66-7 CAPLUS
CN 1H-Benz[f]indole-2-carboxylic acid, 9-methoxy-1-(phenylmethyl)-, ethyl ester (CA INDEX NAME)



RN 172216-95-4 CAPLUS
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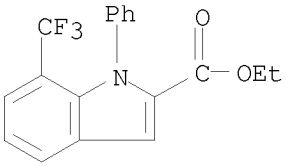
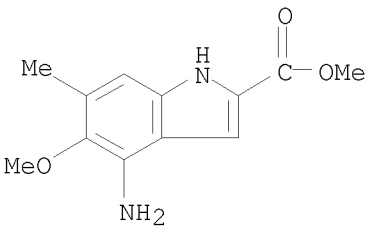
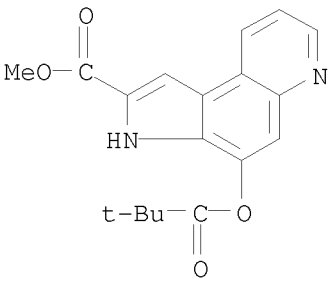


RN 172516-96-0 CAPLUS

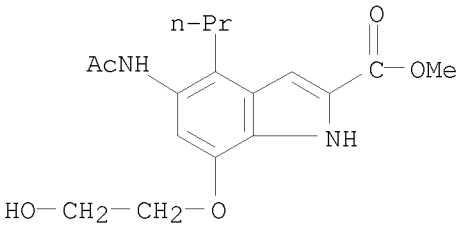
CN 1H-Indole-2-carboxylic acid, 4-amino-5-methoxy-6-methyl-, methyl ester (CA INDEX NAME)



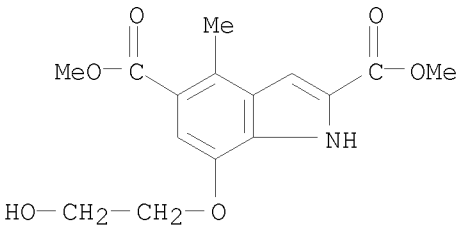
RN 182180-07-0 CAPLUS
CN 3H-Pyrrolo[3,2-f]quinoline-2-carboxylic acid, 4-(2,2-dimethyl-1-oxopropoxy)-, methyl ester (CA INDEX NAME)



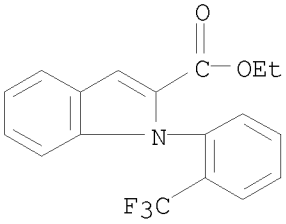
RN 207739-39-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(acetylamino)-7-(2-hydroxyethoxy)-4-propyl-, methyl ester (CA INDEX NAME)



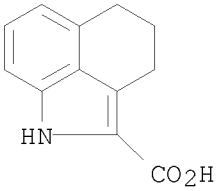
RN 207739-53-5 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 7-(2-hydroxyethoxy)-4-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



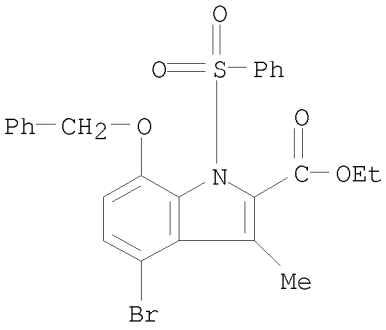
RN 582319-01-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[2-(trifluoromethyl)phenyl]-, ethyl ester (CA INDEX NAME)



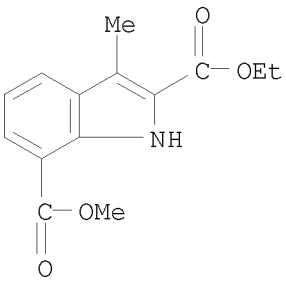
RN 582319-19-5 CAPLUS
CN Benz[cd]indole-2-carboxylic acid, 1,3,4,5-tetrahydro- (CA INDEX NAME)



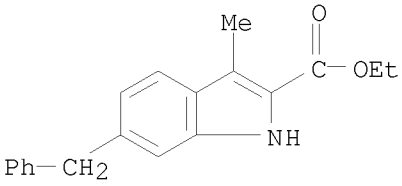
RN 582319-34-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo-3-methyl-7-(phenylmethoxy)-1-(phenylsulfonyl)-, ethyl ester (CA INDEX NAME)



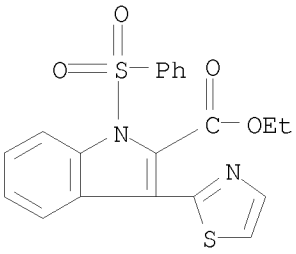
RN 582319-49-1 CAPLUS
CN 1H-Indole-2,7-dicarboxylic acid, 3-methyl-, 2-ethyl 7-methyl ester (CA INDEX NAME)



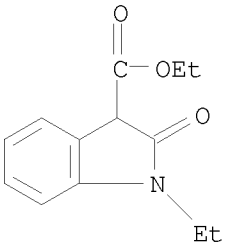
RN 582319-50-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-6-(phenylmethyl)-, ethyl ester (CA INDEX NAME)



RN 582320-02-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-(phenylsulfonyl)-3-(2-thiazolyl)-, ethyl ester (CA INDEX NAME)

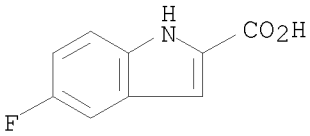


RN 582320-15-8 CAPLUS
CN 1H-Indole-3-carboxylic acid, 1-ethyl-2,3-dihydro-2-oxo-, ethyl ester (CA INDEX NAME)

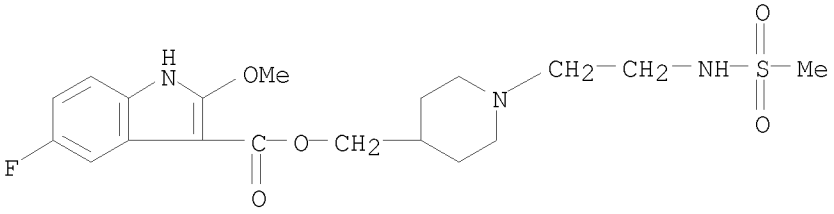


RE.CNT 1348 THERE ARE 1348 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:896214 CAPLUS <<LOGINID::20080505>>
DN 136:241026
TI The potential of 19F NMR spectroscopy for rapid screening of cell cultures for models of mammalian drug metabolism
AU Corcoran, Olivia; Lindon, John C.; Hall, Richard; Ismail, Ismail M.; Nicholson, Jeremy K.
CS Biological Chemistry, Division of Biomedical Sciences, Imperial College of Science, Technology and Medicine, London, SW7 2AZ, UK
SO Analyst (Cambridge, United Kingdom) (2001), 126(12), 2103-2106
CODEN: ANALAO; ISSN: 0003-2654
PB Royal Society of Chemistry
DT Journal
LA English
AB The use of microbial cultures as a complementary model for mammalian drug metabolism has been well established previously. Here is a preliminary investigation into the potential of 19F NMR spectroscopy as a rapid screening tool to quantify the biotransformations of fluorine-containing model drugs. Biotransformations of three model drugs in 48 taxonomically diverse organisms were measured by acquiring 19F NMR spectra at 376 MHz. The presence of fluorine in the mols. allowed rapid, simultaneous detection of over 20 biotransformation products without sample pre-treatment, chromatog., mass spectrometric techniques or the use of radiolabeled substrates. The detection limit at 376 MHz using 5 mm NMR tubes was 0.3 μg ml-1 using a typical anal. time of 20 min per sample. With the recent advent of flow injection NMR technol., anal. time of 5 min could be achieved with less sample. This approach may be used to develop fast small-scale microbial screens for the biosynthesis of metabolite stds. and production of novel drug analogs, while also having a role in reducing animal expts. needed to identify animal and human metabolites of fluorinated xenobiotics.
IT 399-76-8, 5-Fluoroindole-2-carboxylic acid 144625-67-2, GR125487
RL: PKT (Pharmacokinetics); BIOL (Biological study)
(potential of 19F NMR spectroscopy for rapid screening of cell cultures for models of mammalian drug metabolism)
RN 399-76-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-fluoro- (CA INDEX NAME)

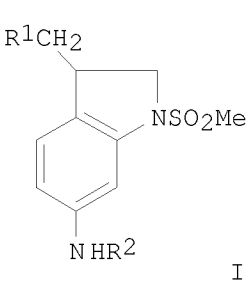


RN 144625-67-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-fluoro-2-methoxy-, [1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl ester (CA INDEX NAME)



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:49527 CAPLUS <<LOGINID::20080505>>
DN 128:167288
TI Synthesis of nitrogen and sulfur analogs of the seco-CI alkylating agent
AU Tercel, Moana; Denny, William A.
CS Faculty of Medicine and Health Science, Cancer Research Laboratory, The University of Auckland, Auckland, N. Z.
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (3), 509-520
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 128:167288
GI



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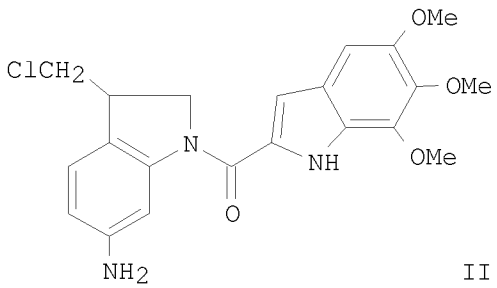
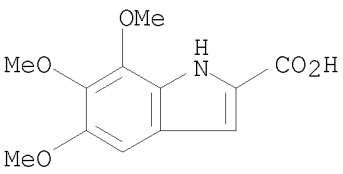


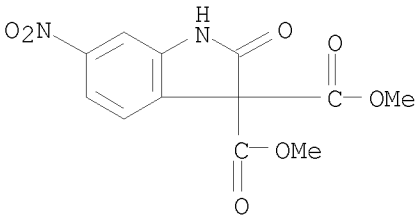
II

AB Two complementary syntheses of amino seco-CI (CI = 1a,2,3,5-tetrahydro-1H-cycloprop[1,2-c]indol-5-one) alkylating agents, e.g. I (R1 = O3SMe, R2 = SO2Me; R1 = Cl, R2 = H) and II, starting from isomeric chloronitrobenzoic acids are reported. Further reactions of these compds., including diazotization to phenol and thiophenol derivs., and alkylation and acylation reactions relevant to the preparation of pro-drug forms are also described.
IT 128781-07-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of nitrogen and sulfur analogs of seco-CI alkylating agent)

RN 128781-07-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5,6,7-trimethoxy- (CA INDEX NAME)

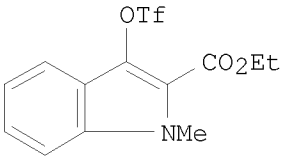


IT 185433-47-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of nitrogen and sulfur analogs of seco-CI alkylating agent)
RN 185433-47-0 CAPLUS
CN 3H-Indole-3,3-dicarboxylic acid, 1,2-dihydro-6-nitro-2-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

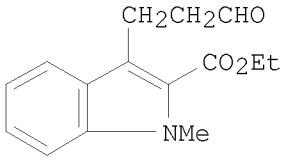


RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

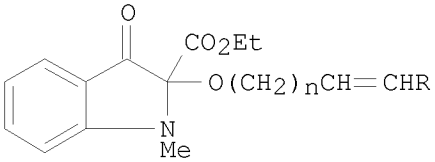
L15 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:14365 CAPLUS <<LOGINID::20080505>>
DN 128:114847
TI Palladium-catalyzed reactions of indolic triflate with allylic alcohols
AU Malapel-Andrieu, Beatrice; Merour, Jean-Yves
CS Inst. Chim. Org. Anal., Univ. Orleans, Orleans, 45067, Fr.
SO Tetrahedron Letters (1998), 39(1/2), 39-42
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 128:114847
GI



I



II



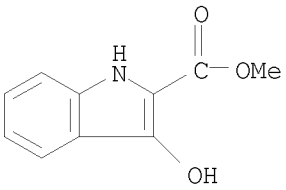
III

AB Reactions of 3-indolic triflate I with allylic alcs. RCH:CH(CH2)mCHR'OH (R, R' = H, Me, m = 0, 1) in presence of palladium (II) acetate gave access to aldehydic compds., e.g., II, and in a more surprising way to C-2 substituted products and oxoindole derivs., e.g., III.

IT 31827-04-0 42871-90-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(palladium-catalyzed addition of indolic triflate to allylic alcs.)

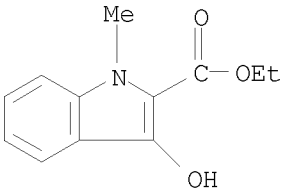
RN 31827-04-0 CAPLUS

CN 1H-Indole-2-carboxylic acid, 3-hydroxy-, methyl ester (CA INDEX NAME)



RN 42871-90-9 CAPLUS

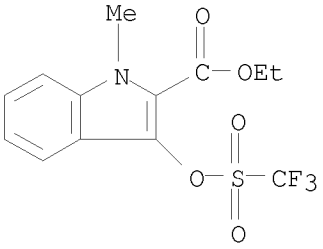
CN 1H-Indole-2-carboxylic acid, 3-hydroxy-1-methyl-, ethyl ester (CA INDEX NAME)



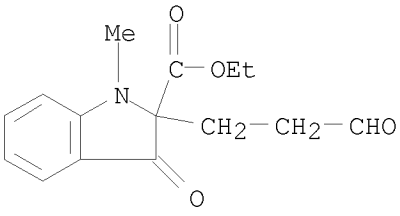
IT 201665-48-7P 201665-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(palladium-catalyzed addition of indolic triflate to allylic alcs.)

RN 201665-48-7 CAPLUS

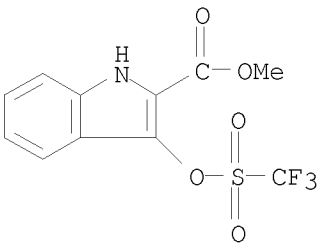
CN 1H-Indole-2-carboxylic acid, 1-methyl-3-[[(trifluoromethyl)sulfonyl]oxy]-, ethyl ester (CA INDEX NAME)



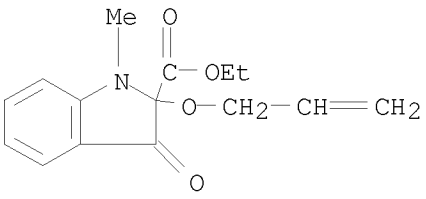
RN 201665-54-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-1-methyl-3-oxo-2-(3-oxopropyl)-, ethyl ester (CA INDEX NAME)



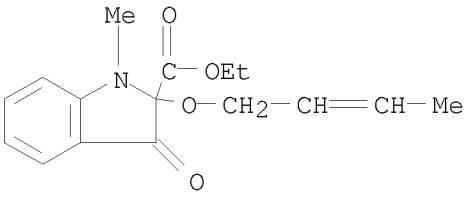
IT 201665-47-6P 201665-49-8P 201665-50-1P
201665-51-2P 201665-52-3P 201665-53-4P
201665-55-6P 201665-56-7P 201665-57-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(palladium-catalyzed addition of indolic triflate to allylic alcs.)
RN 201665-47-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-[[(trifluoromethyl)sulfonyl]oxy]-, methyl ester (CA INDEX NAME)



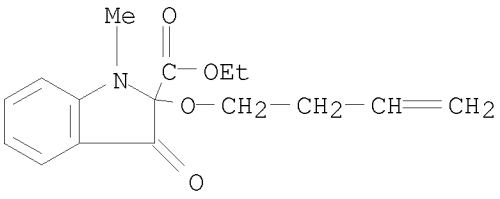
RN 201665-49-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-1-methyl-3-oxo-2-(2-propenyloxy)-, ethyl ester (9CI) (CA INDEX NAME)



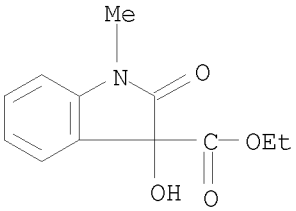
RN 201665-50-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(2-butenyloxy)-2,3-dihydro-1-methyl-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



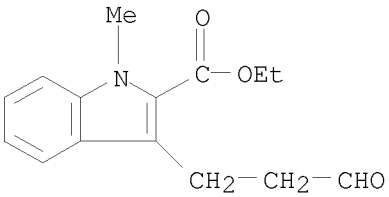
RN 201665-51-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(3-butenyloxy)-2,3-dihydro-1-methyl-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



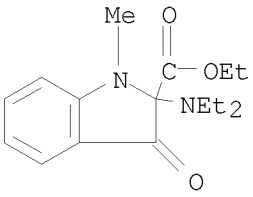
RN 201665-52-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-hydroxy-1-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



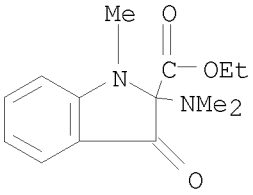
RN 201665-53-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-methyl-3-(3-oxopropyl)-, ethyl ester (CA INDEX NAME)



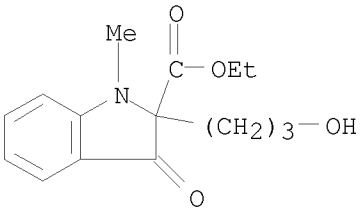
RN 201665-55-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(diethylamino)-2,3-dihydro-1-methyl-3-oxo-, ethyl ester (CA INDEX NAME)



RN 201665-56-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(dimethylamino)-2,3-dihydro-1-methyl-3-oxo-, ethyl ester (CA INDEX NAME)



RN 201665-57-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-2-(3-hydroxypropyl)-1-methyl-3-oxo-, ethyl ester (CA INDEX NAME)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1997:257472 CAPLUS <<LOGINID::20080505>>

DN 126:238304
TI Preparation of seco precursors of cyclopropylindoles as anticancer drugs
IN Denny, William Alexander; Tercel, Moana
PA Auckland Division Cancer Society of New Zealand Inc., N. Z.; Denny, William Alexander; Tercel, Moana
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9707097	A1	19970227	WO 1996-NZ83	19960819
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	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM				
	CA 2229264	A1	19970227	CA 1996-2229264	19960819
	AU 9667109	A	19970312	AU 1996-67109	19960819
	AU 707644	B2	19990715		
	EP 850220	A1	19980701	EP 1996-927217	19960819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11511113	T	19990928	JP 1996-531337	19960819
	US 5985909	A	19991116	US 1998-11883	19980218
PRAI	GB 1995-16943	A	19950818		
	WO 1996-NZ83	W	19960819		

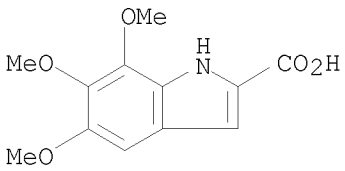
OS MARPAT 126:238304
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I and II; X = halo, OSO2R (wherein R = H, (un)substituted by 1-4 OH groups lower alkyl, (un)substituted by 1-2 lower alkyl groups NH2); Y = NH2, NO2, NHOH, etc.; E = N, CH; G = O, S, NH; Q = H, OR, NR2, etc.; R1 = R; P = III, IV, V (wherein Z = H, Me; n = 1-2; R2 = R, CONHR, NHCOR, OR, SO2R)], useful as prodrugs for antibody-directed enzyme-prodrug therapy (ADEPT) and gene-directed enzyme-prodrug therapy (GDEPT) for cancer, were prepared Thus, two alternative 10-step syntheses of VI, which showed IC50 of 0.32 μM in AA8 cells, and against UV4 cells of 0.059 μM, were described.

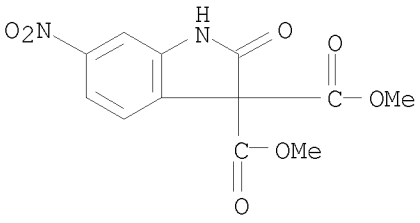
IT 128781-07-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of seco precursors of cyclopropylindoles as anticancer drugs)

RN 128781-07-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5,6,7-trimethoxy- (CA INDEX NAME)

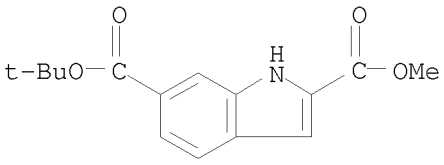


IT 185433-47-0P 188538-12-7P 188538-13-8P
188538-14-9P 188538-15-0P 188538-16-1P
188538-17-2P 188538-18-3P 188538-19-4P
188538-20-7P 188538-21-8P 188538-22-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of seco precursors of cyclopropylindoles as anticancer drugs)

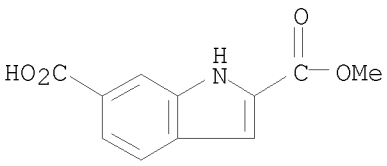
RN 185433-47-0 CAPLUS
CN 3H-Indole-3,3-dicarboxylic acid, 1,2-dihydro-6-nitro-2-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



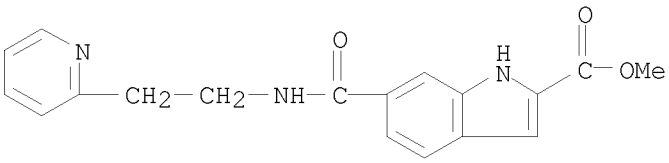
RN 188538-12-7 CAPLUS
CN 1H-Indole-2,6-dicarboxylic acid, 6-(1,1-dimethylethyl) 2-methyl ester (CA INDEX NAME)



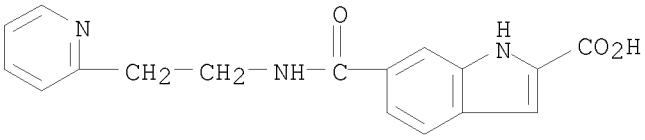
RN 188538-13-8 CAPLUS
CN 1H-Indole-2,6-dicarboxylic acid, 2-methyl ester (CA INDEX NAME)



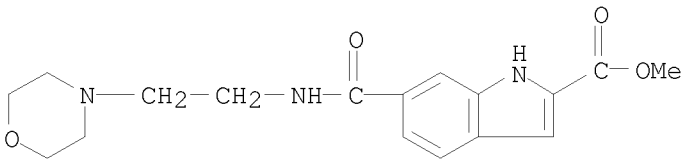
RN 188538-14-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(2-pyridinyl)ethyl]amino]carbonyl]-, methyl ester (CA INDEX NAME)



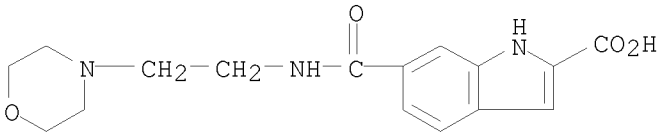
RN 188538-15-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(2-pyridinyl)ethyl]amino]carbonyl]-
(CA INDEX NAME)



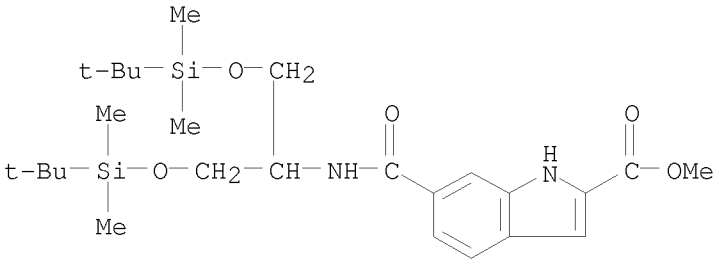
RN 188538-16-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(4-morpholinyl)ethyl]amino]carbonyl]-,
methyl ester (CA INDEX NAME)



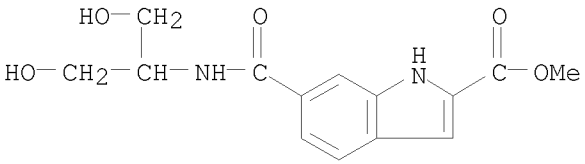
RN 188538-17-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(4-morpholinyl)ethyl]amino]carbonyl]-
(CA INDEX NAME)



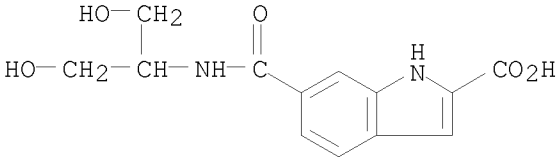
RN 188538-18-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy
]-1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]ethyl]amino]carbonyl]-,
methyl ester (CA INDEX NAME)



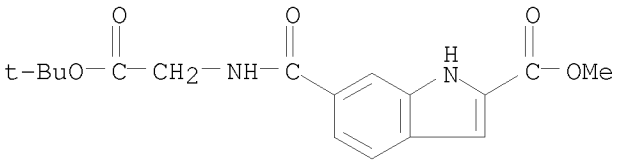
RN 188538-19-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-hydroxy-1-(hydroxymethyl)ethyl]amino]carbonyl]-, methyl ester (CA INDEX NAME)



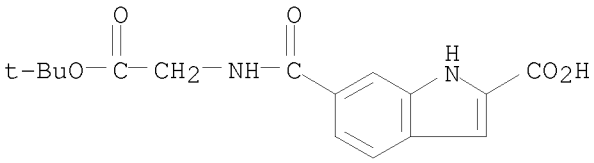
RN 188538-20-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-hydroxy-1-(hydroxymethyl)ethyl]amino]carbonyl]- (CA INDEX NAME)



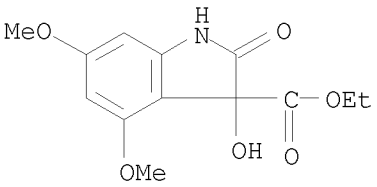
RN 188538-21-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]carbonyl]-, methyl ester (CA INDEX NAME)



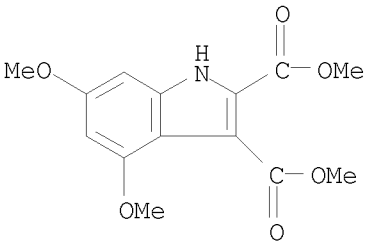
RN 188538-22-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-[[[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]carbonyl]- (CA INDEX NAME)



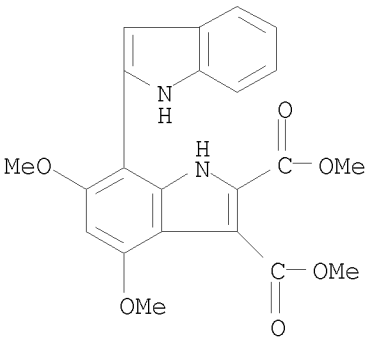
L15 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:197541 CAPLUS <<LOGINID::20080505>>
DN 124:343046
TI Synthesis of biindolyls by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride
AU Black, David StC.; Ivory, Andrew J.; Kumar, Naresh
CS School Chemistry, The Univ. New South Wales, Sydney, 2052, Australia
SO Tetrahedron (1996), 52(13), 4697-708
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier
DT Journal
LA English
OS CASREACT 124:343046
AB Examples of 2,2'-, 2,3'-, and 2,7'-biindolyls have been prepared by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride. In certain conditions terindolyls can also be formed and those described contain combinations of the above linkages.
IT 23659-85-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(elimination reaction of)
RN 23659-85-0 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-hydroxy-4,6-dimethoxy-2-oxo-, ethyl ester (CA INDEX NAME)



IT 105776-30-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of biindolyls by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride)
RN 105776-30-5 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 4,6-dimethoxy-, dimethyl ester (9CI) (CA INDEX NAME)

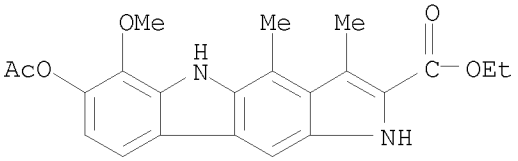


IT 176722-78-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of biindolyls by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride)
RN 176722-78-4 CAPLUS
CN [2,7'-Bi-1H-indole]-2',3'-dicarboxylic acid, 4',6'-dimethoxy-, dimethyl ester (9CI) (CA INDEX NAME)

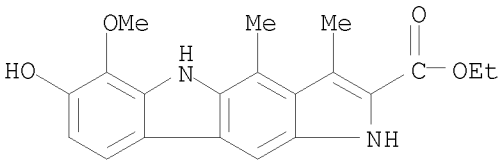


L15 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:193783 CAPLUS <<LOGINID::20080505>>
DN 124:343155
TI Antitumor heterocycles. Part 12. The synthesis of new hydroxypyrrolocarbazoles and hydroxypyridocarbazoles
AU Dharmasena, Priyanthi; Oliveira-Campos, Ana-M. F.; Querioz, Maria-Joao R. P.; Shannon, Patrick V. R.
CS School of Chemistry, Univ. of Wales, Cardiff, CF1 3TB, UK
SO Journal of Chemical Research, Synopses (1996), (1), 12-13
CODEN: JRPSDC; ISSN: 0308-2342
PB Royal Society of Chemistry
DT Journal
LA English
AB 7-Methoxy-8-pivaloyloxy-5,11-dimethyl- and 8-hydroxy-7-methoxy-5,11-dimethyl-pyrido[4,3-b]carbazoles have been synthesized from 6-hydroxy-7-methoxyindole and 6-acetoxy-7-methoxyindole; alternative routes from the indoles give the [2,3-f] and [3,2-f] isomers of hydroxymethoxypyrrolocarbazoles and acetoxymethoxypyrrolocarbazoles .
IT 157578-59-1P 176720-15-3P 176720-20-0P
176720-24-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 157578-59-1 CAPLUS

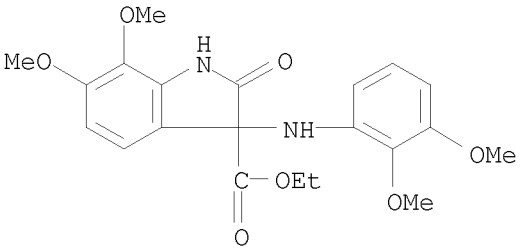
CN Pyrrolo[3,2-b]carbazole-2-carboxylic acid, 7-(acetyloxy)-1,5-dihydro-6-methoxy-3,4-dimethyl-, ethyl ester (CA INDEX NAME)



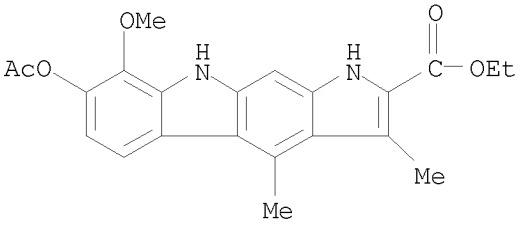
RN 176720-15-3 CAPLUS
CN Pyrrolo[3,2-b]carbazole-2-carboxylic acid, 1,5-dihydro-7-hydroxy-6-methoxy-3,4-dimethyl-, ethyl ester (CA INDEX NAME)



RN 176720-20-0 CAPLUS
CN 1H-Indole-3-carboxylic acid, 3-[(2,3-dimethoxyphenyl)amino]-2,3-dihydro-6,7-dimethoxy-2-oxo-, ethyl ester (CA INDEX NAME)

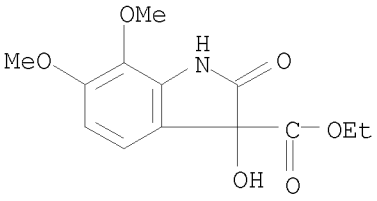


RN 176720-24-4 CAPLUS
CN Pyrrolo[2,3-b]carbazole-2-carboxylic acid, 7-(acetyloxy)-1,9-dihydro-8-methoxy-3,4-dimethyl-, ethyl ester (CA INDEX NAME)

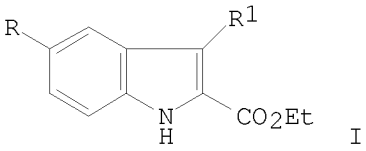


IT 176720-21-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of new hydroxypyrrolocarbazoles and hydroxypyridocarbazoles)
RN 176720-21-1 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-hydroxy-6,7-dimethoxy-2-oxo-, ethyl ester (CA INDEX NAME)



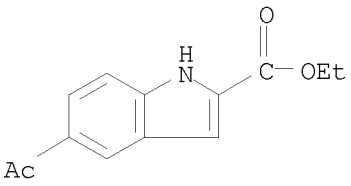
L15 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1994:482949 CAPLUS <<LOGINID::20080505>>
DN 121:82949
TI Reaction of ethyl acylindole-2-carboxylates with thallium trinitrate. Synthetic studies on indoles and related compounds. XXXIII
AU Tani, Masanobu; Matsumoto, Shigenobu; Aida, Yoshiyuki; Arikawa, Shiho; Nakane, Atsuko; Yokoyama, Yuusaku; Murakami, Yasuoki
CS Sch. Pharm. Sci., Toho Univ., Funabashi, 274, Japan
SO Chemical & Pharmaceutical Bulletin (1994), 42(3), 443-53
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
OS CASREACT 121:82949
GI



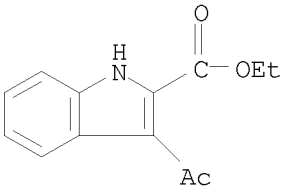
I

AB Et acylindole-2-carboxylates (I; R = COMe, COEt, R1 = H, Me; R = H, R1 = COMe, COEt), were treated with thallium trinitrate (TTN) in methanol, Me orthoformate, Me orthoformate/sulfuric acid, and acetic acid. The reactions in the former three methanolic solvents gave Me indoleacetate derivs., e.g. [I; R = CH2CO2Me, CHMeCO2Me, CH(OMe)CO2Me, CMe(OMe)CO2Me, R1 = H, Me] via the Favorskii-type rearrangement reaction at the acyl group, whereas the reaction in acetic acid gave an oxindole derivative with rearrangement of the C2-ethoxycarbonyl group. This TTN reaction was applied to a model compound leading to the synthesis of lysergic acid.
IT 31380-56-0 77069-10-4 92248-55-0
156361-86-3 156361-87-4 156361-88-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(Favorskii rearrangement/methoxylation of, with thallium trinitrate in methanolic solvents)
RN 31380-56-0 CAPLUS

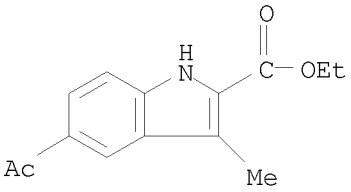
CN 1H-Indole-2-carboxylic acid, 5-acetyl-, ethyl ester (CA INDEX NAME)



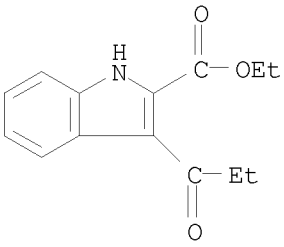
RN 77069-10-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-acetyl-, ethyl ester (CA INDEX NAME)



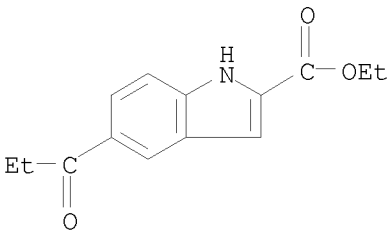
RN 92248-55-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-acetyl-3-methyl-, ethyl ester (CA INDEX NAME)



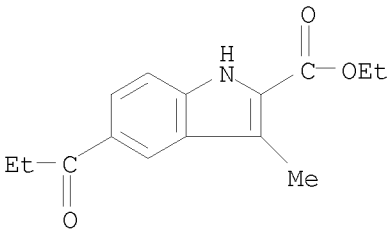
RN 156361-86-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-(1-oxopropyl)-, ethyl ester (CA INDEX NAME)



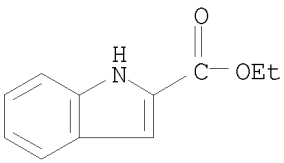
RN 156361-87-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(1-oxopropyl)-, ethyl ester (CA INDEX NAME)



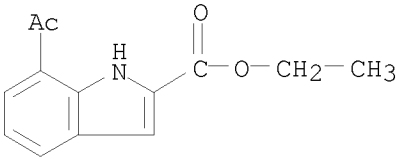
RN 156361-88-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-5-(1-oxopropyl)-, ethyl ester (CA INDEX NAME)



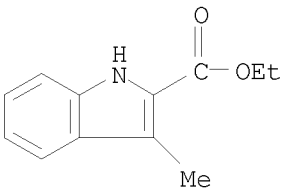
IT 3770-50-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, by aspartic acid chloride)
RN 3770-50-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, ethyl ester (CA INDEX NAME)



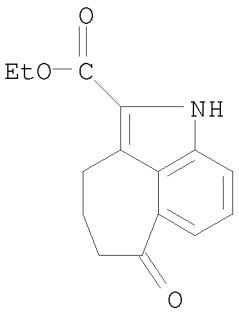
IT 90395-39-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(nitration of, with thallium trinitrate)
RN 90395-39-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-acetyl-, ethyl ester (CA INDEX NAME)



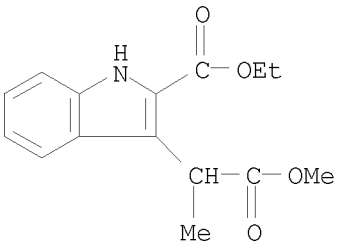
IT 26304-51-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation/rearrangement of, with thallium trinitrate)
RN 26304-51-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-, ethyl ester (CA INDEX NAME)



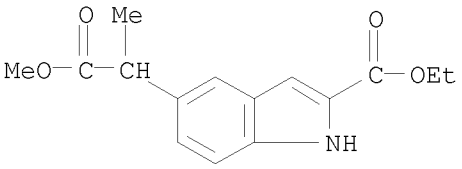
IT 42137-35-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and Favorskii rearrangement/methoxylation of, with thallium trinitrate)
RN 42137-35-9 CAPLUS
CN 1H-Cyclohept[cd]indole-2-carboxylic acid, 3,4,5,6-tetrahydro-6-oxo-, ethyl ester (CA INDEX NAME)



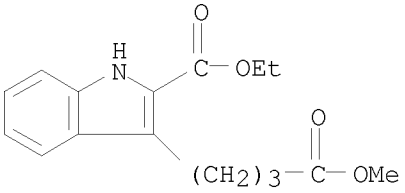
IT 156361-90-9P 156361-92-1P 156362-15-1P
156362-21-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acid hydrolysis of)
RN 156361-90-9 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(ethoxycarbonyl)-α-methyl-, methyl ester (CA INDEX NAME)



RN 156361-92-1 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α-methyl-, methyl ester (CA INDEX NAME)

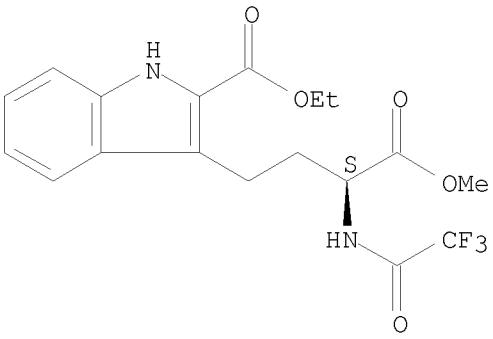


RN 156362-15-1 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)-, methyl ester (CA INDEX NAME)

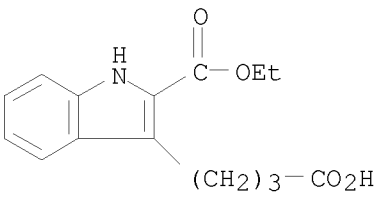


RN 156362-21-9 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)-α-[(trifluoroacetyl)amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

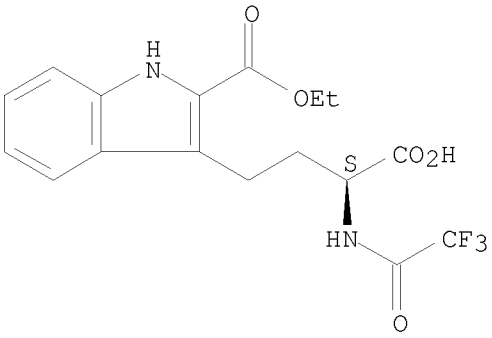


IT 42137-33-7P 156362-22-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclocondensation of)
RN 42137-33-7 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)- (CA INDEX NAME)

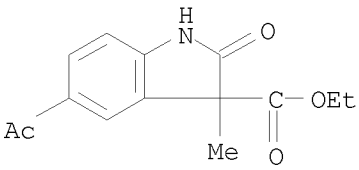


RN 156362-22-0 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)-α-[(trifluoroacetyl)amino]-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

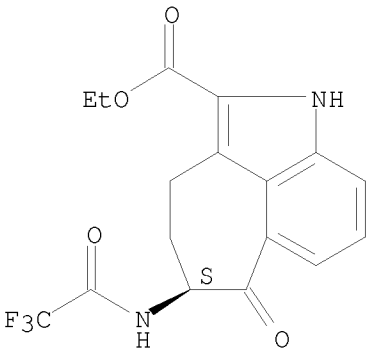


IT 156362-07-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)
RN 156362-07-1 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-acetyl-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



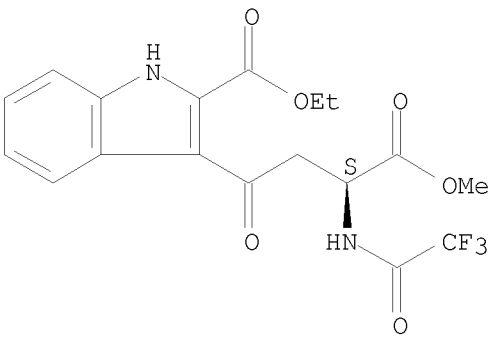
IT 156362-23-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methoxylation of, with thallium trinitrate)
RN 156362-23-1 CAPLUS
CN 1H-Cyclohept[cd]indole-2-carboxylic acid, 3,4,5,6-tetrahydro-6-oxo-5-[(trifluoroacetyl)amino]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

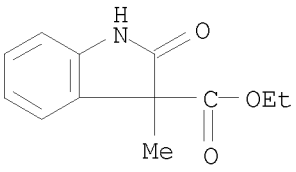


IT 156362-20-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
RN 156362-20-8 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)-γ-oxo-α-[(trifluoroacetyl)amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

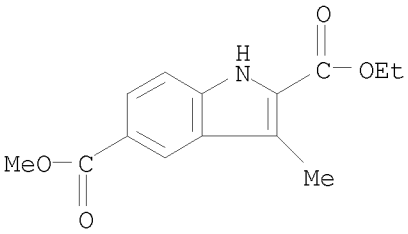
Absolute stereochemistry.



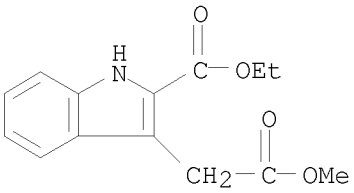
IT 14750-19-7P 66552-40-7P 156361-89-6P
156361-91-0P 156361-93-2P 156361-94-3P
156361-95-4P 156361-96-5P 156361-97-6P
156361-98-7P 156361-99-8P 156362-00-4P
156362-01-5P 156362-02-6P 156362-03-7P
156362-04-8P 156362-06-0P 156362-09-3P
156362-10-6P 156362-11-7P 156362-12-8P
156362-13-9P 156362-16-2P 156362-19-5P
156362-24-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14750-19-7 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



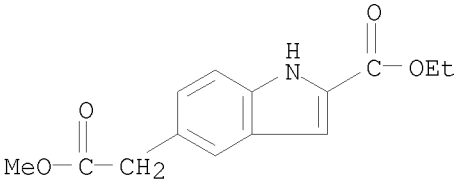
RN 66552-40-7 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 3-methyl-, 2-ethyl 5-methyl ester (CA INDEX NAME)



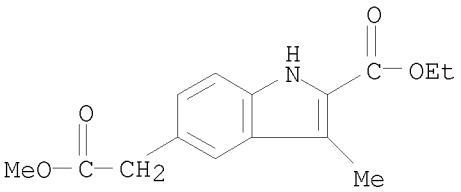
RN 156361-89-6 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(ethoxycarbonyl)-, methyl ester (CA INDEX NAME)



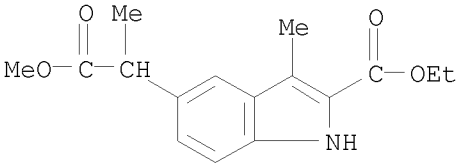
RN 156361-91-0 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-, methyl ester (CA INDEX NAME)



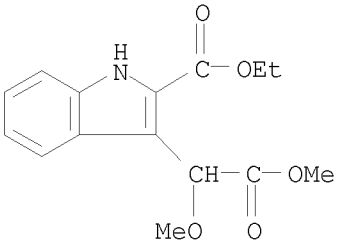
RN 156361-93-2 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-3-methyl-, methyl ester (CA INDEX NAME)



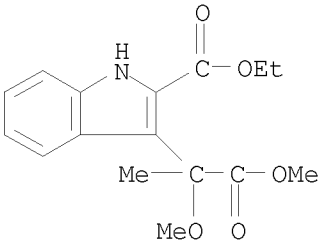
RN 156361-94-3 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α,3-dimethyl-, methyl ester (CA INDEX NAME)



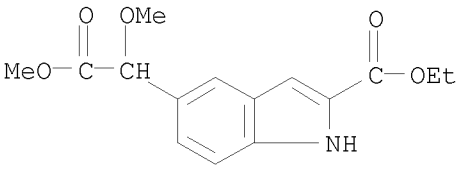
RN 156361-95-4 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(ethoxycarbonyl)-α-methoxy-, methyl ester (CA INDEX NAME)



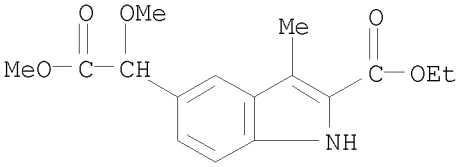
RN 156361-96-5 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(ethoxycarbonyl)-α-methoxy-α-methyl-, methyl ester (CA INDEX NAME)



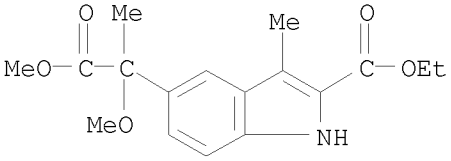
RN 156361-97-6 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α-methoxy-, methyl ester (CA INDEX NAME)



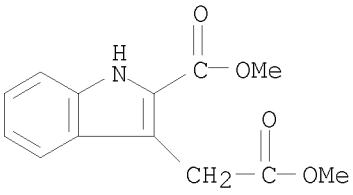
RN 156361-98-7 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α-methoxy-3-methyl-, methyl ester (CA INDEX NAME)



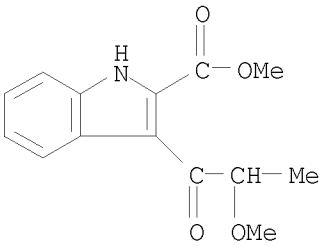
RN 156361-99-8 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α-methoxy-α,3-dimethyl-, methyl ester (CA INDEX NAME)



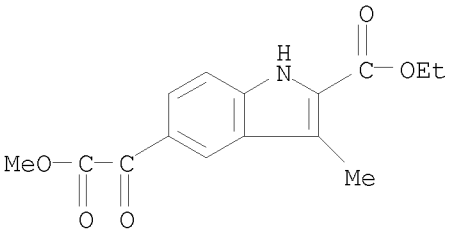
RN 156362-00-4 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(methoxycarbonyl)-, methyl ester (CA INDEX NAME)



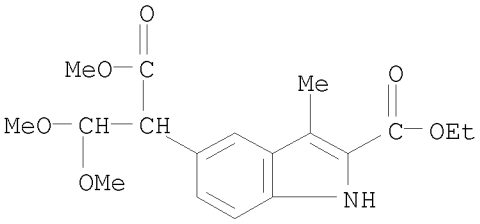
RN 156362-01-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-(2-methoxy-1-oxopropyl)-, methyl ester (CA INDEX NAME)



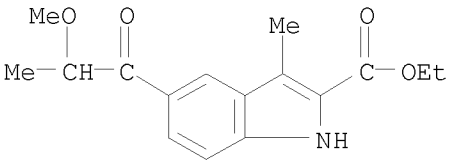
RN 156362-02-6 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-3-methyl-α-oxo-, methyl ester (CA INDEX NAME)



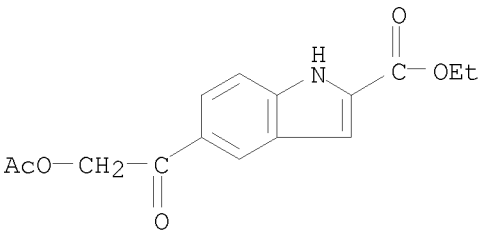
RN 156362-03-7 CAPLUS
CN 1H-Indole-5-acetic acid, α-(dimethoxymethyl)-2-(ethoxycarbonyl)-3-methyl-, methyl ester (CA INDEX NAME)



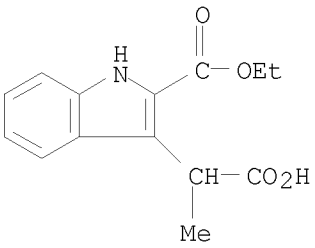
RN 156362-04-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(2-methoxy-1-oxopropyl)-3-methyl-, ethyl ester (CA INDEX NAME)



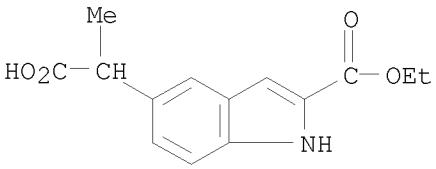
RN 156362-06-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-[(acetyloxy)acetyl]-, ethyl ester (9CI) (CA INDEX NAME)



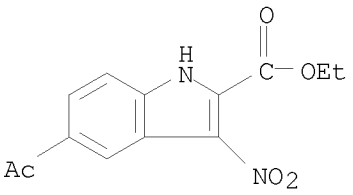
RN 156362-09-3 CAPLUS
CN 1H-Indole-3-acetic acid, 2-(ethoxycarbonyl)-α-methyl- (CA INDEX NAME)



RN 156362-10-6 CAPLUS
CN 1H-Indole-5-acetic acid, 2-(ethoxycarbonyl)-α-methyl- (CA INDEX NAME)

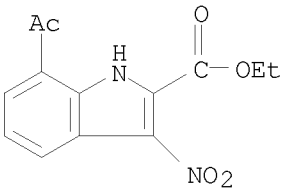


RN 156362-11-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-acetyl-3-nitro-, ethyl ester (CA INDEX NAME)

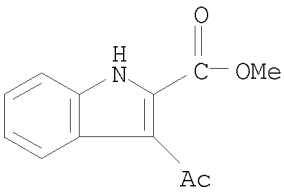


RN 156362-12-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-acetyl-3-nitro-, ethyl ester (CA INDEX

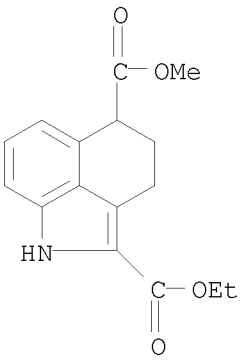
NAME)



RN 156362-13-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-acetyl-, methyl ester (CA INDEX NAME)

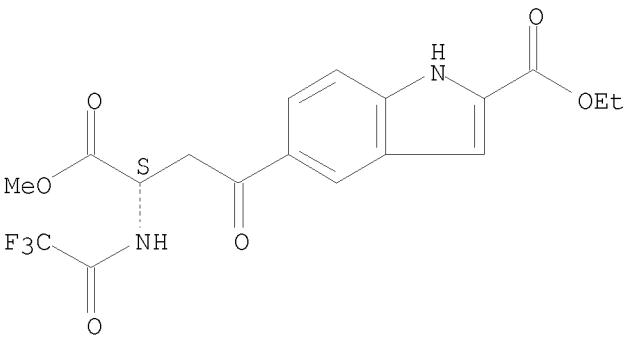


RN 156362-16-2 CAPLUS
CN Benz[cd]indole-2,5-dicarboxylic acid, 1,3,4,5-tetrahydro-, 2-ethyl 5-methyl ester (CA INDEX NAME)

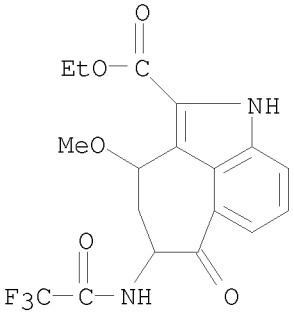


RN 156362-19-5 CAPLUS
CN 1H-Indole-5-butanoic acid, 2-(ethoxycarbonyl)-γ-oxo-α-[(trifluoroacetyl)amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

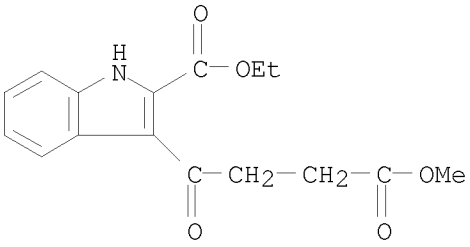
Absolute stereochemistry.



RN 156362-24-2 CAPLUS
CN 1H-Cyclohept[cd]indole-2-carboxylic acid, 3,4,5,6-tetrahydro-3-methoxy-6-oxo-5-[(trifluoroacetyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



IT 133738-59-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)
RN 133738-59-7 CAPLUS
CN 1H-Indole-3-butanoic acid, 2-(ethoxycarbonyl)-γ-oxo-, methyl ester (CA INDEX NAME)



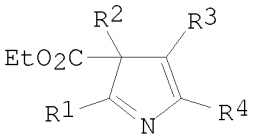
L15 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1990:611747 CAPLUS <<LOGINID::20080505>>
DN 113:211747
OREF 113:35775a,35778a
TI The synthesis and chemistry of azolenines. Part 18. Preparation of 3-ethoxycarbonyl-3H-pyrroles via the Paal-Knorr reaction, and sigmatropic

rearrangements involving competitive ester migrations to C-2, C-4 and N

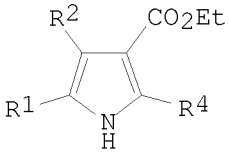
AU Chiu, Pak Kan; Sammes, Michael P.
CS Dep. Chem., Univ. Hong Kong, Hong Kong

SO Tetrahedron (1990), 46(10), 3439-56
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
OS CASREACT 113:211747

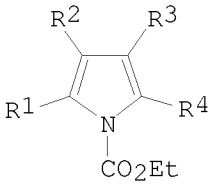
GI



I



II

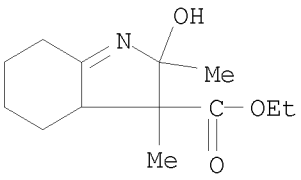


III

AB 3H-Pyrrole-3-carboxylic esters I [R1 = Me, Ph, CMe, CO2Et; R2 = Me, R3 = H, Me; R4 = Me, Ph, CMe3; R1R2 = (CH2)4, R3 = H, R4 = Me, Ph] were prepared, in some cases together with isomers having exocyclic double bonds, by cyclization. of suitably substituted 2-ethoxycarbonyl-1,4-diketones with liquid ammonia, followed by dehydration of the isolable 2-hydroxy-3,4-dihydro-2H-pyrrole intermediates with aluminia in boiling solvents. Prolonged heating in toluene or p-xylene converts the 3H-pyrroles (I) quant. into isomeric 4-esters II and N-esters III of 1H-pyrroles via competitive [1,5]sigmatropic rearrangements. Isolable intermediate 2H-pyrrole-2-carboxylic esters are converted similarly into the same products, under the same conditions. Detection of 3H-pyrroles as intermediates in the latter reaction demonstrates for the first time the reversibility of the thermal 2H-pyrrole to 3H-pyrrole interconversion.

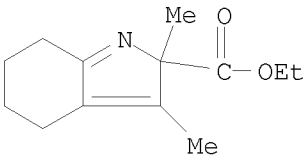
IT 130460-17-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)

RN 130460-17-2 CAPLUS
CN 2H-Indole-3-carboxylic acid, 3,3a,4,5,6,7-hexahydro-2-hydroxy-2,3-dimethyl-, ethyl ester (CA INDEX NAME)

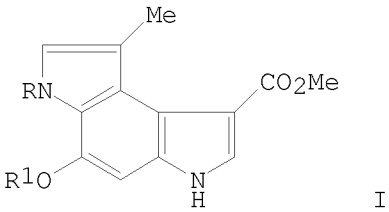


IT 130460-62-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 130460-62-7 CAPLUS
CN 2H-Indole-2-carboxylic acid, 4,5,6,7-tetrahydro-2,3-dimethyl-, ethyl ester (CA INDEX NAME)

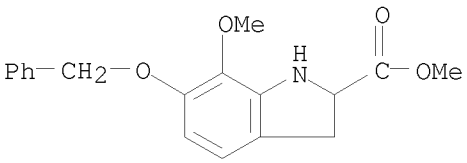


L15 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1990:216513 CAPLUS <<LOGINID::20080505>>
DN 112:216513
OREF 112:36537a,36540a
TI Access to the three subunits of the antitumor antibiotic CC-1065 by hetero-Cope rearrangement of vinyl N-phenylhydroxamates
AU Martin, Pierre
CS Zent. Forschungslab., Ciba-Geigy A.-G., Basel, CH-4002, Switz.
SO Helvetica Chimica Acta (1989), 72(7), 1554-82
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA German
OS CASREACT 112:216513
GI

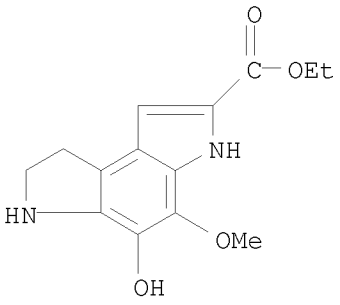


I

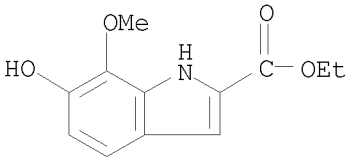
AB The hetero-Cope rearrangement of vinyl N-phenylhydroxamates to indoles was used for the preparation of the 1,2-dihydro-3H,6H-benzo[1,2-b:4,3-b']dipyrrole skeleton I (R = Ac, R1 = H; R = SO2Ph, R1 = CH2Ph) the structural subunits characteristic of the antitumor antibiotic CC-1065 as well as the phosphodiesterase inhibitors PDE-I and PDE-II.
IT 127027-75-2P 127028-08-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of)
RN 127027-75-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-7-methoxy-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



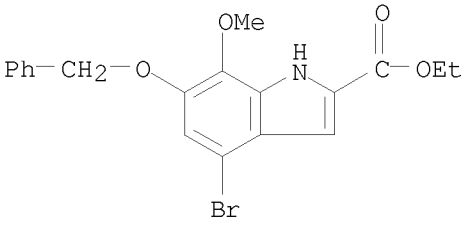
RN 127028-08-4 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 3,6,7,8-tetrahydro-5-hydroxy-4-methoxy-, ethyl ester (9CI) (CA INDEX NAME)



IT 127027-66-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and benzylation of)
RN 127027-66-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-hydroxy-7-methoxy-, ethyl ester (CA INDEX NAME)

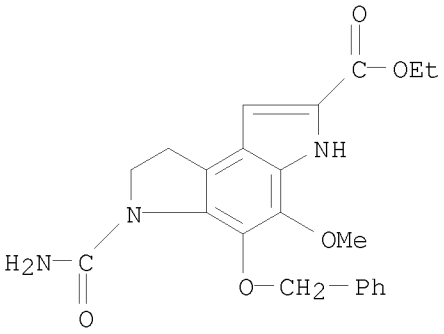


IT 127027-65-0P 127028-09-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and debenzylation of)
RN 127027-65-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo-7-methoxy-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)

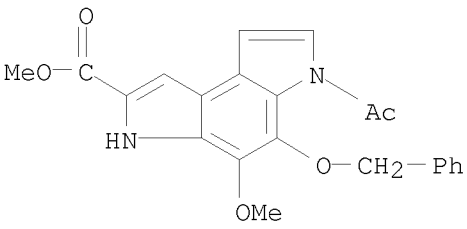


RN 127028-09-5 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-(aminocarbonyl)-3,6,7,8-tetrahydro-4-methoxy-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX

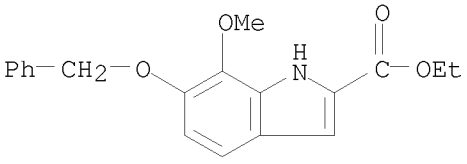
NAME)



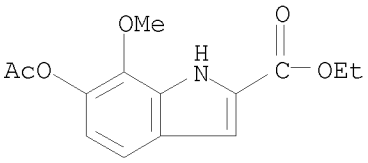
IT 127027-85-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)
RN 127027-85-4 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-acetyl-3,6-dihydro-4-methoxy-5-(phenylmethoxy)-, methyl ester (9CI) (CA INDEX NAME)



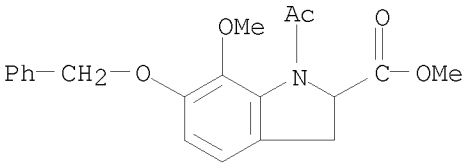
IT 127027-59-2P 127027-67-2P 127027-76-3P
127027-79-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and nitration of)
RN 127027-59-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



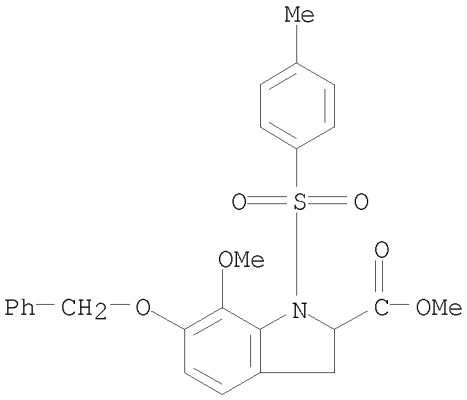
RN 127027-67-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-(acetyloxy)-7-methoxy-, ethyl ester (CA INDEX NAME)



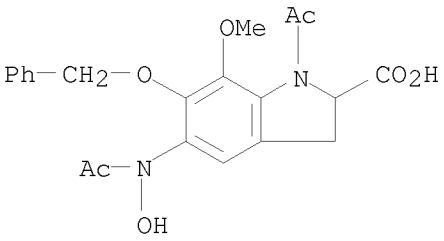
RN 127027-76-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-acetyl-2,3-dihydro-7-methoxy-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



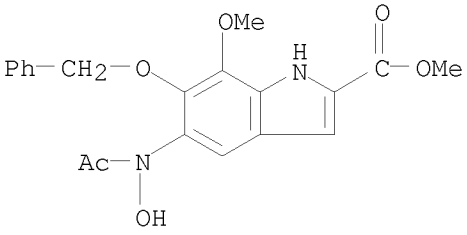
RN 127027-79-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-7-methoxy-1-[(4-methylphenyl)sulfonyl]-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



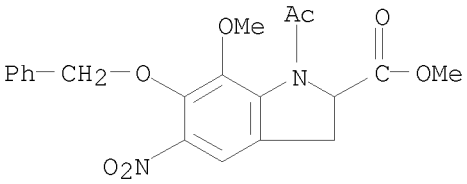
IT 127027-81-0P 127027-84-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with vinylacetate)
RN 127027-81-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-acetyl-5-(acetylhydroxyamino)-2,3-dihydro-7-methoxy-6-(phenylmethoxy)- (CA INDEX NAME)



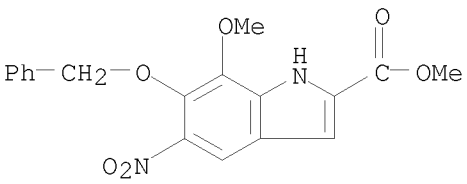
RN 127027-84-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(acetylhydroxyamino)-7-methoxy-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



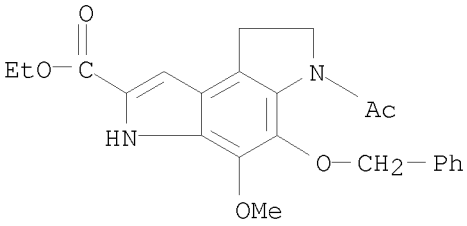
IT 127027-77-4P 127027-80-9P 127027-95-6P
127028-07-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
RN 127027-77-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-acetyl-2,3-dihydro-7-methoxy-5-nitro-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



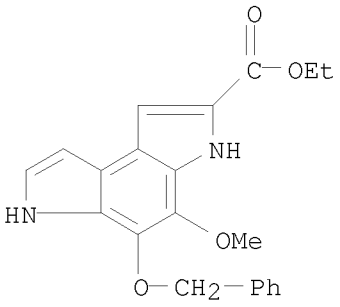
RN 127027-80-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-5-nitro-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



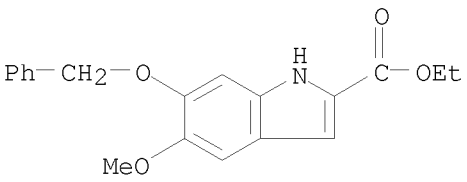
RN 127027-95-6 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-acetyl-3,6,7,8-tetrahydro-4-methoxy-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



RN 127028-07-3 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 3,6-dihydro-4-methoxy-5-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)

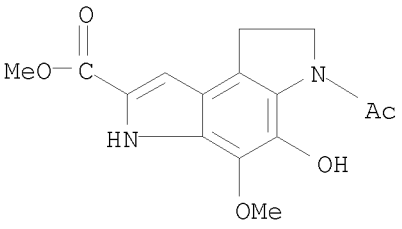


IT 23001-69-6P 67805-50-9P 70837-70-6P
70837-76-2P 127027-61-6P 127027-62-7P
127027-68-3P 127027-69-4P 127027-70-7P
127027-71-8P 127027-72-9P 127027-73-0P
127027-74-1P 127027-78-5P 127027-82-1P
127027-83-2P 127028-13-1P 127028-14-2P
127028-16-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 23001-69-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)

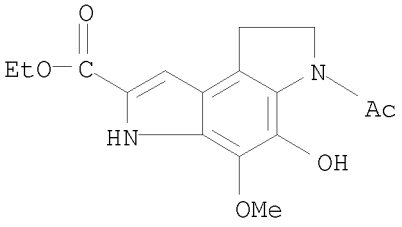


RN 67805-50-9 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-acetyl-3,6,7,8-

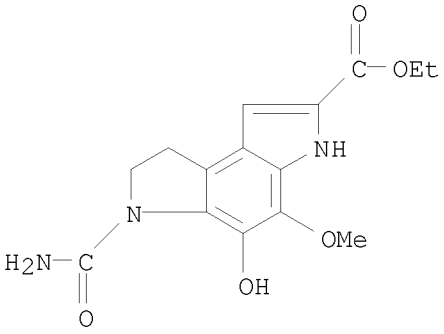
tetrahydro-5-hydroxy-4-methoxy-, methyl ester (9CI) (CA INDEX NAME)



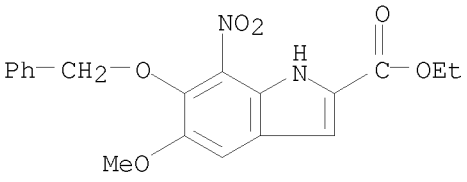
RN 70837-70-6 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-acetyl-3,6,7,8-tetrahydro-5-hydroxy-4-methoxy-, ethyl ester (9CI) (CA INDEX NAME)



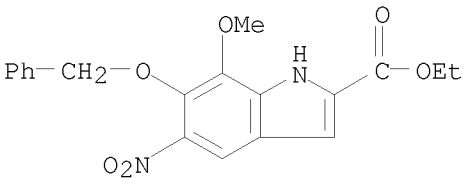
RN 70837-76-2 CAPLUS
CN Benzo[1,2-b:4,3-b']dipyrrole-2-carboxylic acid, 6-(aminocarbonyl)-3,6,7,8-tetrahydro-5-hydroxy-4-methoxy-, ethyl ester (9CI) (CA INDEX NAME)



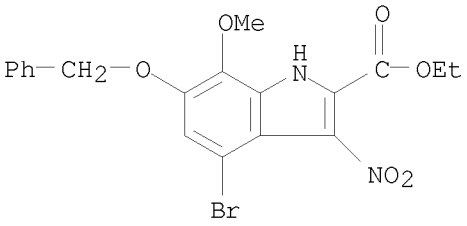
RN 127027-61-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-7-nitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



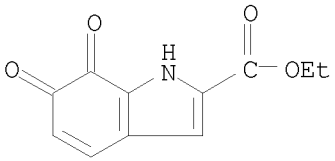
RN 127027-62-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-5-nitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



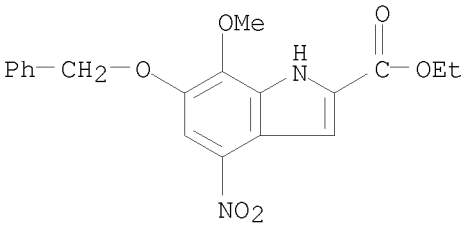
RN 127027-68-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo-7-methoxy-3-nitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



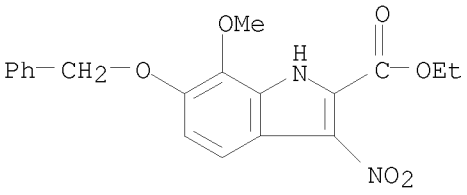
RN 127027-69-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6,7-dihydro-6,7-dioxo-, ethyl ester (CA INDEX NAME)



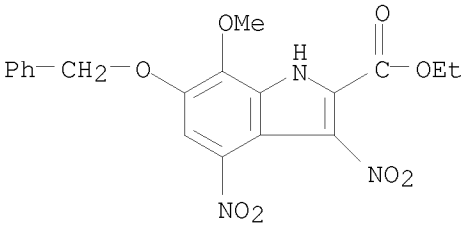
RN 127027-70-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-4-nitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



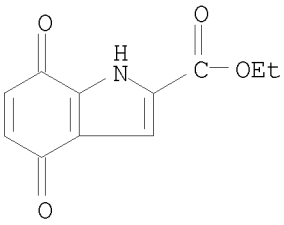
RN 127027-71-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-3-nitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



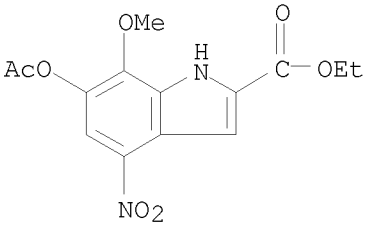
RN 127027-72-9 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-3,4-dinitro-6-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



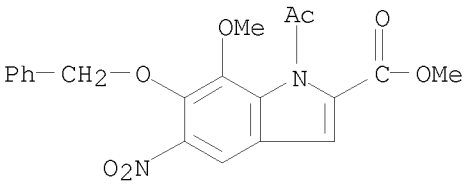
RN 127027-73-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4,7-dihydro-4,7-dioxo-, ethyl ester (CA INDEX NAME)



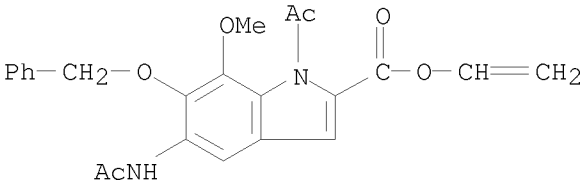
RN 127027-74-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-(acetyloxy)-7-methoxy-4-nitro-, ethyl ester (CA INDEX NAME)



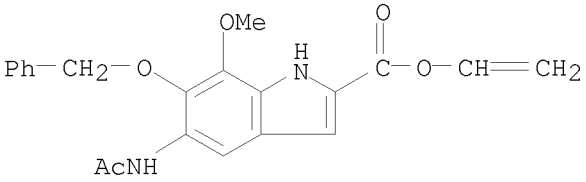
RN 127027-78-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-acetyl-7-methoxy-5-nitro-6-(phenylmethoxy)-, methyl ester (CA INDEX NAME)



RN 127027-82-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-acetyl-5-(acetylamino)-7-methoxy-6-(phenylmethoxy)-, ethenyl ester (CA INDEX NAME)

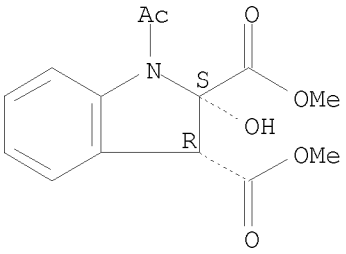


RN 127027-83-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(acetylamino)-7-methoxy-6-(phenylmethoxy)-, ethenyl ester (CA INDEX NAME)



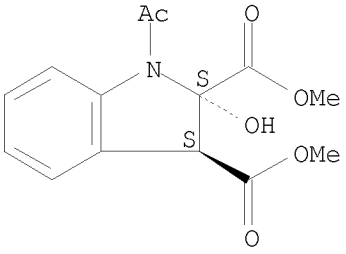
RN 127028-13-1 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-acetyl-2,3-dihydro-2-hydroxy-, dimethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

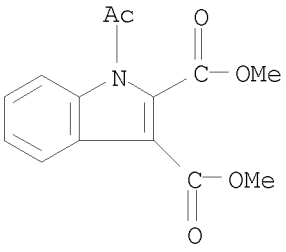


RN 127028-14-2 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-acetyl-2,3-dihydro-2-hydroxy-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

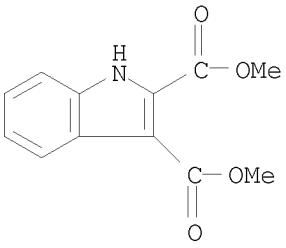


RN 127028-16-4 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-acetyl-, dimethyl ester (9CI) (CA INDEX NAME)

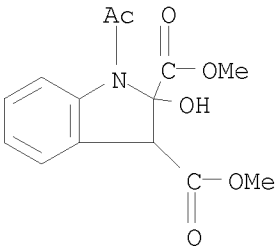


L15 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:33914 CAPLUS <<LOGINID::20080505>>
DN 100:33914
OREF 100:5259a,5262a
TI Photochemistry of dimethyl quinoline-3,4-dicarboxylate N-oxides
AU Irvine, Robert W.; Summers, John C.; Taylor, Walter C.
CS Dep. Org. Chem., Univ. Sydney, 2006, Australia
SO Australian Journal of Chemistry (1983), 36(7), 1419-30
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB The photochem. rearrangement of di-Me 2-methyl- and 2-aryl-substituted quinoline-3,4-dicarboxylate N-oxides are examined In MeOH or MeOH-CHCl3 the major product was the 1-methyl- or 1-arylquinolin-2(1H)-one in which the substituent at C-2 has migrated to the N atom. The yield of these products was increased in a dark reaction subsequent to the irradiation In MeCN the inital major product was the corresponding 3,1-benzoxazepine; subsequent reactions yielded inter alia indole derivs. The intermediacy of fused oxaziridines or their ring opened isomeric zwittterions is discussed.
IT 54781-93-0P 88342-83-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54781-93-0 CAPLUS

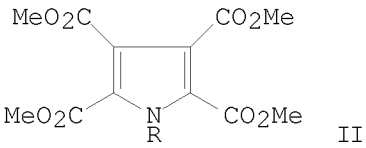
CN 1H-Indole-2,3-dicarboxylic acid, 2,3-dimethyl ester (CA INDEX NAME)



RN 88342-83-0 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-acetyl-2,3-dihydro-2-hydroxy-, dimethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:472033 CAPLUS <<LOGINID::20080505>>
DN 97:72033
OREF 97:12045a,12048a
TI Oxidation of enamine esters with lead tetraacetate. Part 2. Products from N-aryl- and N-benzylaminofumarates
AU Vernon, John M.; Carr, Richard M.; Sukari, Mohamed A.
CS Dep. Chem., Univ. York, York, YO1 5DD, UK
SO Journal of Chemical Research, Synopses (1982), (5), 115
CODEN: JRPSDC; ISSN: 0308-2342
DT Journal
LA English
OS CASREACT 97:72033
GI



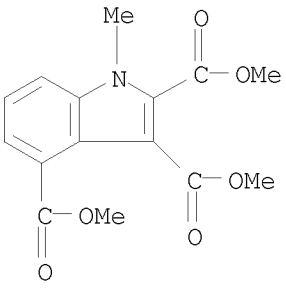
II

AB The enamines MeO2CCH:C(CO2Me)NHR (I; R = Ph, C6H3Me2-3,5, C6H4OMe-4, C6H4Cl-4, C6H4COMe-4, C6H4NO2-4, CH2Ph, Bu, cyclohexyl) and MeO2CCH:C(CO2Me)R1 (R1 = N-piperidinyl) were prepared by reaction of

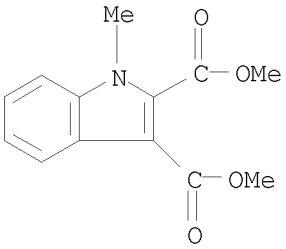
MeO2CC.tplbond.CCO2Me with the corresponding RNH2 and piperidine, resp., and oxidized with Pb(OAc)4. I (R = Ph, C6H3Me2-3,5) on oxidation gave dimers which eliminated amines on acid treatment to give pyrroles II (R = Ph, C6H3Me2-3,5). I (R = CH2Ph) similarly gave II (R = CH2Ph) inter alia. Treatment of I (R = C6H4Cl-4, C6H4COMe-4, C6H4NO2-4) with Pb(OAc)4 in CH2Cl2 gave the corresponding RNHCOCO2Me. This reaction involved autoxidn., as Pb(OAc)4 and air were both necessary for the formation of 4-MeCOC6H4NHCOCO2Me.

IT 969-47-1P 82633-34-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

RN 969-47-1 CAPLUS
CN 1H-Indole-2,3,4-tricarboxylic acid, 1-methyl-, 2,3,4-trimethyl ester (CA INDEX NAME)

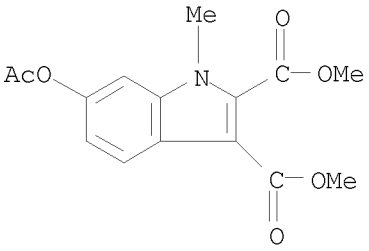


RN 82633-34-9 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)

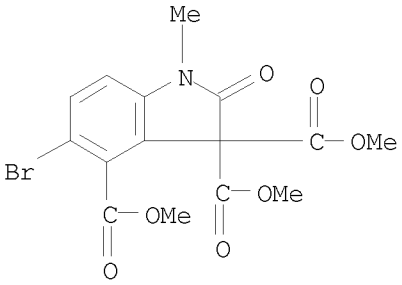


IT 82633-35-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

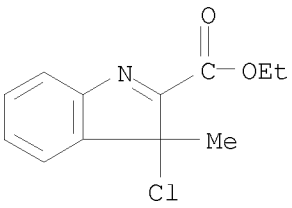
RN 82633-35-0 CAPLUS
CN 1H-Indole-2,3-dicarboxylic acid, 6-(acetyloxy)-1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



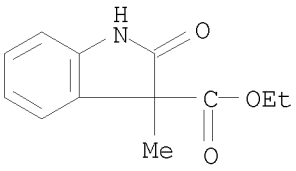
IT 82633-33-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by oxidation of indole)
RN 82633-33-8 CAPLUS
CN 3H-Indole-3,3,4-tricarboxylic acid, 5-bromo-1,2-dihydro-1-methyl-2-oxo-, trimethyl ester (9CI) (CA INDEX NAME)



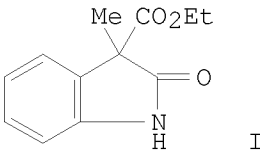
L15 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:142623 CAPLUS <<LOGINID::20080505>>
DN 96:142623
OREF 96:23449a,23452a
TI Reactivity of 3-haloindolenines. I
AU Chun, Moon Woo; Kim, Moon Hwan
CS Coll. Pharm., Seoul Natl. Univ., Seoul, 151, S. Korea
SO Yakhak Hoechi (1981), 25(3), 83-7
CODEN: YAHOA3; ISSN: 0513-4234
DT Journal
LA Korean
AB Reaction of 3-chloroindolenine (I) with HOAc gives oxindole (II) and acetoxyindole. Similar treatment of 3-bromoindolenine (III) affords 6-bromoindole (IV). Reaction of I and III with NaOH/MeOH gives 2- and 3-methoxyindolenine and II. Thermal reaction of III in Cl2CHCHCl2 gives IV, but no reaction occurred with I. Photolysis of I gives indole and 4-, 5- and 7-chloroindole.
IT 68674-58-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with acetic acid)
RN 68674-58-8 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3-chloro-3-methyl-, ethyl ester (CA INDEX NAME)



IT 14750-19-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14750-19-7 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



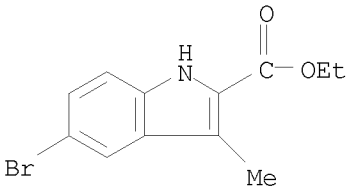
L15 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1979:491436 CAPLUS <<LOGINID::20080505>>
DN 91:91436
OREF 91:14771a,14774a
TI Two novel indole rearrangements
AU Acheson, R. Morrin; Prince, Richard J.; Proctor, Garry
CS Dep. Biochem., Univ. Oxford, Oxford, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (3), 595-8
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 91:91436
GI



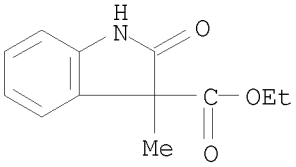
I

AB Treating Et 3-methylindole-2-carboxylate with SO2Cl2 gave 35% oxoindoline I. Similar transformations accompanied by halogenation were effected by Br, or Et N,N-dichlorocarbamate in aqueous AcOH. The latter reagent converted N,N-dimethylindole-2- and -3-carboxamide into 3,5,7-trichloro-N,N-dimethyl-2-oxoindoline-3-carboxamide. Mechanisms for these amide and ester group shifts are proposed.

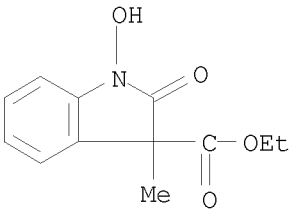
IT 70070-22-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of)
RN 70070-22-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-bromo-3-methyl-, ethyl ester (CA INDEX NAME)



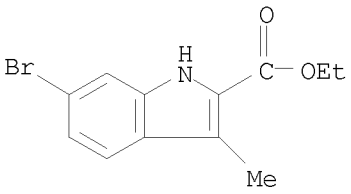
IT 14750-19-7P 14750-31-3P 66552-23-6P
66552-24-7P 71127-37-2P 71127-38-3P
71127-39-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14750-19-7 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



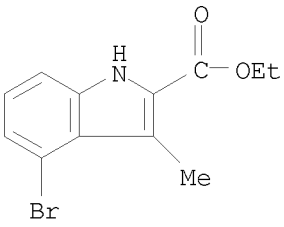
RN 14750-31-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1-hydroxy-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



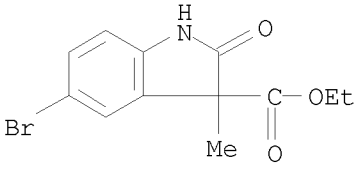
RN 66552-23-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-bromo-3-methyl-, ethyl ester (CA INDEX NAME)



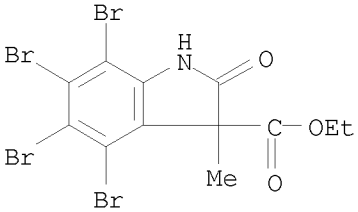
RN 66552-24-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo-3-methyl-, ethyl ester (CA INDEX NAME)



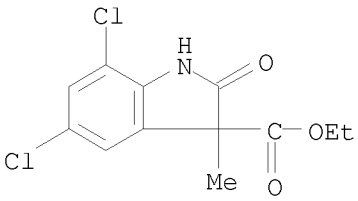
RN 71127-37-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-bromo-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



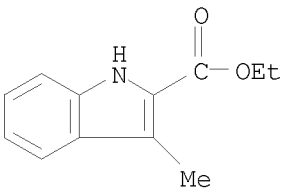
RN 71127-38-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 4,5,6,7-tetrabromo-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



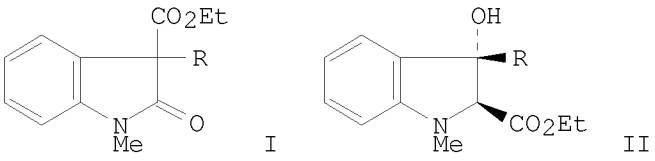
RN 71127-39-4 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5,7-dichloro-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



IT 26304-51-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(rearrangement of, with sulfuryl chloride, bromine, and Et dichlorocarbamate)
RN 26304-51-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-, ethyl ester (CA INDEX NAME)



L15 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1978:579782 CAPLUS <<LOGINID::20080505>>
DN 89:179782
OREF 89:27915a,27918a
TI Synthesis of 3-carboethoxyoxindoles
AU Schultz, Arthur G.; Hagmann, William K.
CS Dep. Chem., Cornell Univ., Ithaca, NY, USA
SO Journal of Organic Chemistry (1978), 43(21), 4231-3
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 89:179782
GI



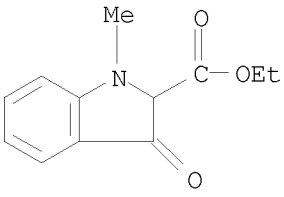
AB Oxindoles I (R = Me, Pr, Ph) were prepared by a simple, two-step procedure. Uranyl glass-filtered irradiation of 2-(N-methylanilino)acetoacetates in pentane solution in the presence of suspended Na2CO3 gave 3-hydroxyindolines II in quant. yield. Oxidative rearrangement of II with Pb(OAc)4 (1.1 equiv) and pyridine (1.1 equivalent) in benzene solution at room temperature gave I

(70-80% yields).

IT 67271-33-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(methylation of)

RN 67271-33-4 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-1-methyl-3-oxo-, ethyl ester (CA INDEX NAME)

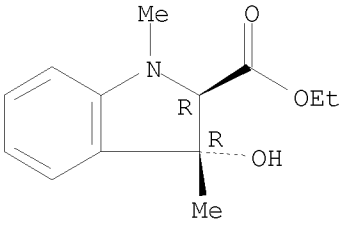


IT 61838-88-8P 67271-26-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidative rearrangement of)

RN 61838-88-8 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-3-hydroxy-1,3-dimethyl-, ethyl ester, trans- (9CI) (CA INDEX NAME)

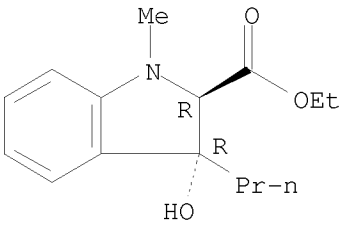
Relative stereochemistry.



RN 67271-26-5 CAPLUS

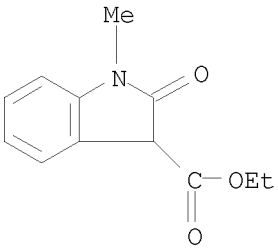
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-3-hydroxy-1-methyl-3-propyl-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



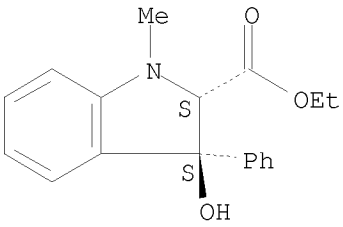
IT 39478-72-3P 67271-27-6P 67271-28-7P
67271-29-8P 67271-30-1P 67271-31-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 39478-72-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1-methyl-2-oxo-, ethyl ester (CA INDEX NAME)

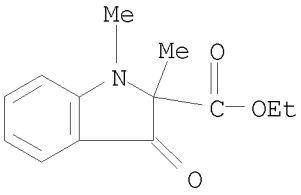


RN 67271-27-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-3-hydroxy-1-methyl-3-phenyl-, ethyl ester, trans- (9CI) (CA INDEX NAME)

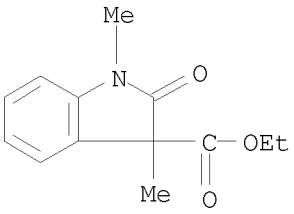
Relative stereochemistry.



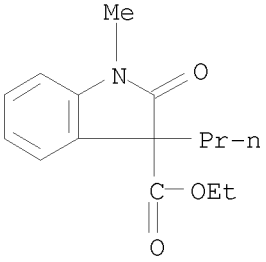
RN 67271-28-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-1,2-dimethyl-3-oxo-, ethyl ester (CA INDEX NAME)



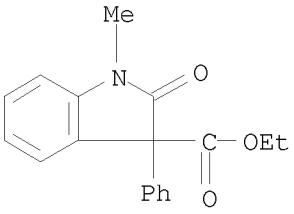
RN 67271-29-8 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



RN 67271-30-1 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1-methyl-2-oxo-3-propyl-, ethyl ester (CA INDEX NAME)



RN 67271-31-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-1-methyl-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)

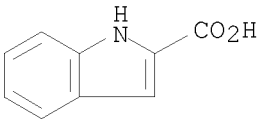


L15 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1978:424787 CAPLUS <<LOGINID::20080505>>
DN 89:24787
OREF 89:3861a,3864a
TI Perchloric acid, a fluorogenic spray reagent for tryptophan, tryptamine, peptides containing tryptophan and other 3-substituted indoles
AU Nakamura, Hiroshi; Pisano, John J.
CS Fac. Pharm. Sci., Univ. Tokyo, Tokyo, Japan
SO Journal of Chromatography (1978), 152(1), 167-74
CODEN: JOCRAM; ISSN: 0021-9673
DT Journal
LA English
AB When silica gel plates containing 3-substituted indoles (e.g., 3-methylindole, indole-3-acetic acid), tryptophan derivs., tryptamine, and tryptophan-containing peptides (e.g., H-Trp-Gly-OH, H-Pro-Trp-OH, H-Lys-Trp-Lys-OH) were sprayed with 70% HClO4, a strong yellow-orange

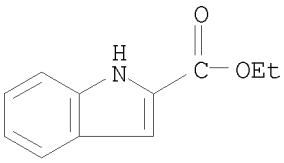
fluorescence developed. Other indole derivs. did not give this fluorescence when sprayed with 70% HClO4. 3-Substituted indoles can be detected at 40-850 pmole by this method.

IT 1477-50-5 3770-50-1 10517-21-2
16136-58-6 66866-41-9
RL: ANT (Analyte); ANST (Analytical study)
(detection of, by fluorescence on silica gel plates after spraying with perchloric acid)

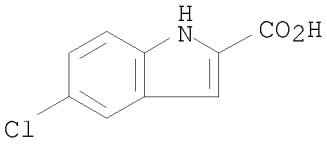
RN 1477-50-5 CAPLUS
CN 1H-Indole-2-carboxylic acid (CA INDEX NAME)



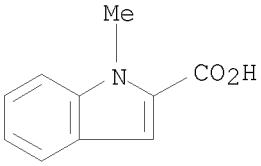
RN 3770-50-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, ethyl ester (CA INDEX NAME)



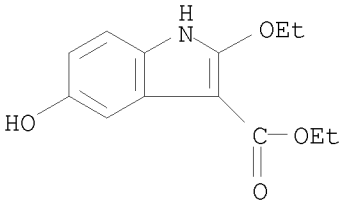
RN 10517-21-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro- (CA INDEX NAME)



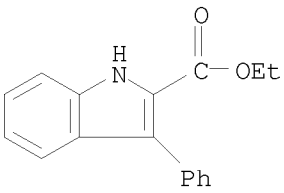
RN 16136-58-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 1-methyl- (CA INDEX NAME)



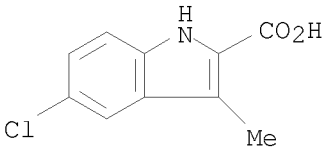
RN 66866-41-9 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2-ethoxy-5-hydroxy-, ethyl ester (CA INDEX NAME)



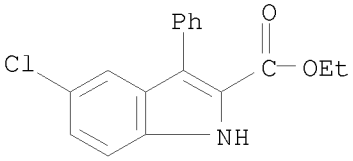
L15 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1973:505035 CAPLUS <<LOGINID::20080505>>
DN 79:105035
OREF 79:17027a,17030a
TI Synthesis and transformations of some 3-chloro- and 3-nitroindolenines
AU Walser, Armin; Blount, John F.; Fryer, R. Ian
CS Chem. Res. Dep., Hoffmann-La Roche, Inc., Nutley, NJ, USA
SO Journal of Organic Chemistry (1973), 38(18), 3077-84
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. 3-Substituted indole-2-carboxylates and amides are converted to the corresponding 3-chloroindolenines by reaction with tert-butyl hypochlorite. These compds. rearrange in protic solvents to oxindoles with migration of the ester or amide function into the 3 position. 3-Substituted 2-acetylindoles and indole-2-carboxylic acids are converted to the oxindoles with loss of the carbonyl function. The intermediate 2-alkoxyindoles may be isolated.
IT 37129-23-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(nitration of)
RN 37129-23-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-phenyl-, ethyl ester (CA INDEX NAME)



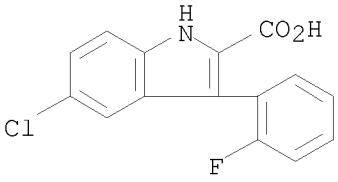
IT 16381-47-8P 21139-32-2P 24106-89-6P
40731-20-2P 40731-21-3P 40731-22-4P
40731-23-5P 40731-24-6P 40731-36-0P
40735-55-5P 40735-56-6P 40735-57-7P
40735-58-8P 40735-59-9P 40735-60-2P
40735-61-3P 40735-62-4P 40735-63-5P
40735-64-6P 40827-73-4P 40827-74-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16381-47-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-3-methyl- (CA INDEX NAME)



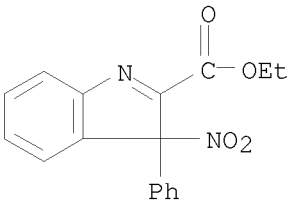
RN 21139-32-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-3-phenyl-, ethyl ester (CA INDEX NAME)



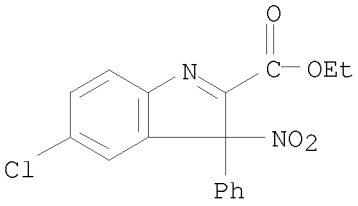
RN 24106-89-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-3-(2-fluorophenyl)- (CA INDEX NAME)



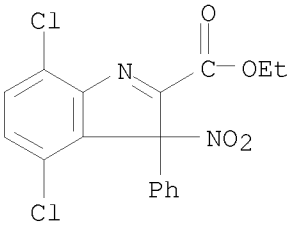
RN 40731-20-2 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



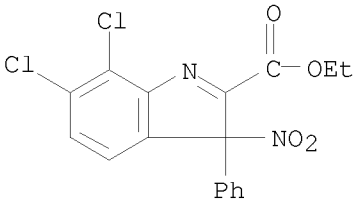
RN 40731-21-3 CAPLUS
CN 3H-Indole-2-carboxylic acid, 5-chloro-3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



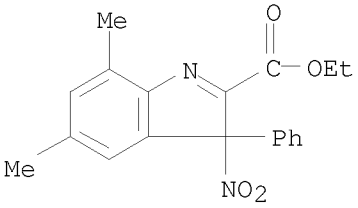
RN 40731-22-4 CAPLUS
CN 3H-Indole-2-carboxylic acid, 4,7-dichloro-3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



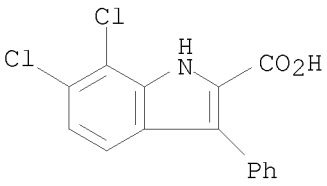
RN 40731-23-5 CAPLUS
CN 3H-Indole-2-carboxylic acid, 6,7-dichloro-3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



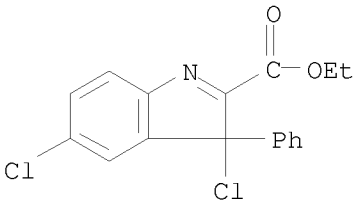
RN 40731-24-6 CAPLUS
CN 3H-Indole-2-carboxylic acid, 5,7-dimethyl-3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



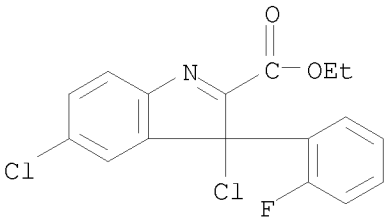
RN 40731-36-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6,7-dichloro-3-phenyl- (CA INDEX NAME)



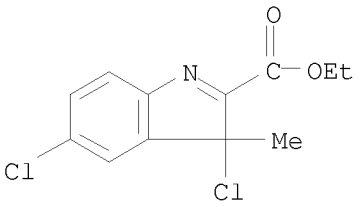
RN 40735-55-5 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3,5-dichloro-3-phenyl-, ethyl ester (CA INDEX NAME)



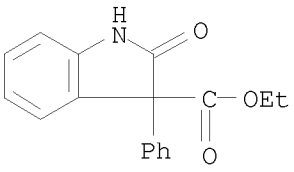
RN 40735-56-6 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3,5-dichloro-3-(2-fluorophenyl)-, ethyl ester (CA INDEX NAME)



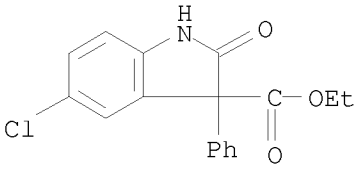
RN 40735-57-7 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3,5-dichloro-3-methyl-, ethyl ester (CA INDEX NAME)



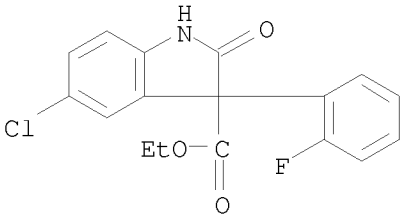
RN 40735-58-8 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



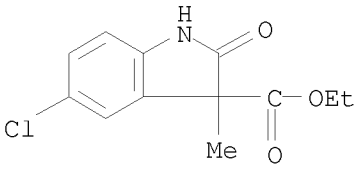
RN 40735-59-9 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-chloro-2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



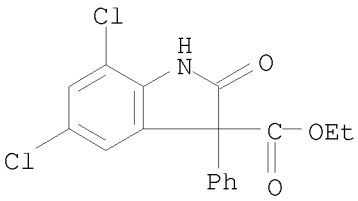
RN 40735-60-2 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-chloro-3-(2-fluorophenyl)-2,3-dihydro-2-oxo-, ethyl ester (CA INDEX NAME)



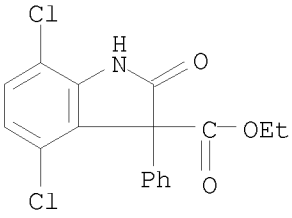
RN 40735-61-3 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-chloro-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



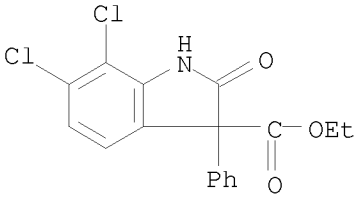
RN 40735-62-4 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5,7-dichloro-2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



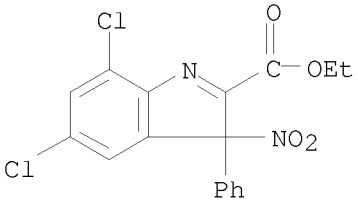
RN 40735-63-5 CAPLUS
CN 1H-Indole-3-carboxylic acid, 4,7-dichloro-2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



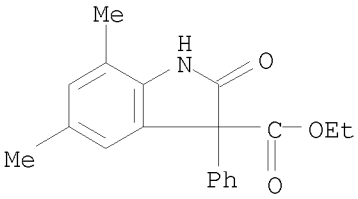
RN 40735-64-6 CAPLUS
CN 1H-Indole-3-carboxylic acid, 6,7-dichloro-2,3-dihydro-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



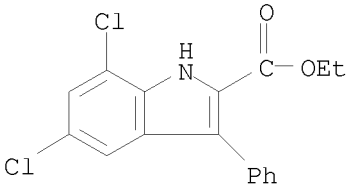
RN 40827-73-4 CAPLUS
CN 3H-Indole-2-carboxylic acid, 5,7-dichloro-3-nitro-3-phenyl-, ethyl ester (CA INDEX NAME)



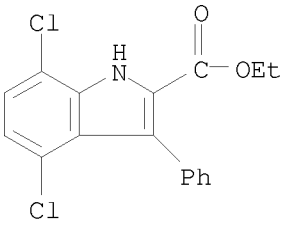
RN 40827-74-5 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-5,7-dimethyl-2-oxo-3-phenyl-, ethyl ester (CA INDEX NAME)



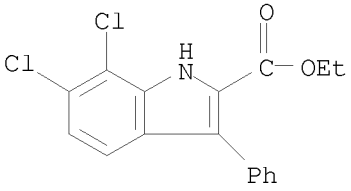
IT 40735-51-1 40735-52-2 40735-53-3
40735-54-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with tert-butyl hypochlorite, chlorination by)
RN 40735-51-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5,7-dichloro-3-phenyl-, ethyl ester (CA INDEX NAME)



RN 40735-52-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4,7-dichloro-3-phenyl-, ethyl ester (CA INDEX NAME)

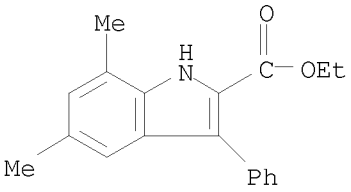


RN 40735-53-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6,7-dichloro-3-phenyl-, ethyl ester (CA INDEX NAME)

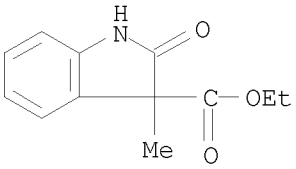


RN 40735-54-4 CAPLUS

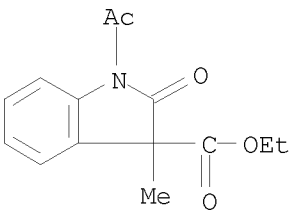
CN 1H-Indole-2-carboxylic acid, 5,7-dimethyl-3-phenyl-, ethyl ester (CA INDEX NAME)



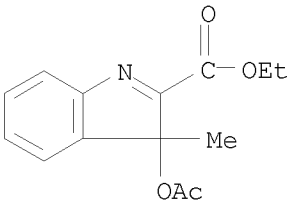
L15 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1972:539708 CAPLUS <<LOGINID::20080505>>
DN 77:139708
OREF 77:22965a,22968a
TI Migration of ethyl ester group on ethyl 3-methylindole-2-carboxylate
AU Saki, Shinichiro; Katano, Kiyoaki
CS Fac. Pharm. Sci., Chiba Univ., Chiba, Japan
SO Yakugaku Zasshi (1972), 92(9), 1129-32
CODEN: YKKZAJ; ISSN: 0031-6903
DT Journal
LA Japanese
AB The reaction of Et 3-methylindole-2-carboxylate (I) with SO2Cl2 afforded Et 3-methyloxindole-3-carboxylate (II) and not Et 1-hydroxy-3-methylindole-2-carboxylate as previously reported by J. Elks et al. (1944). Furthermore, the reaction of I with Pb(OAc)4 gave Et 3-acetoxy-3-methyl-3-indole-2-carboxylate, which underwent rearrangement by aqueous AcOH to II.
IT 14750-19-7P 38256-37-0P 38256-38-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14750-19-7 CAPLUS
CN 1H-Indole-3-carboxylic acid, 2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



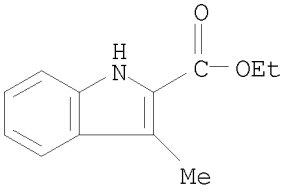
RN 38256-37-0 CAPLUS
CN 1H-Indole-3-carboxylic acid, 1-acetyl-2,3-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



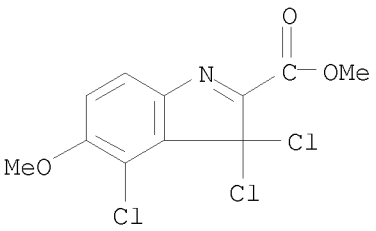
RN 38256-38-1 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3-(acetyloxy)-3-methyl-, ethyl ester (CA INDEX NAME)



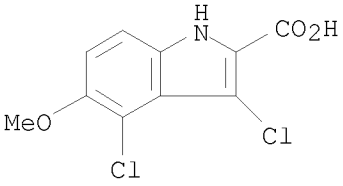
IT 26304-51-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(rearrangement of ethyl ester group in)
RN 26304-51-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-methyl-, ethyl ester (CA INDEX NAME)



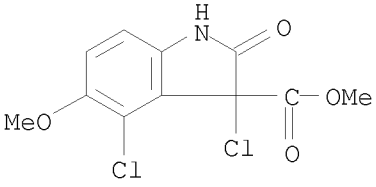
L15 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1971:488426 CAPLUS <<LOGINID::20080505>>
DN 75:88426
OREF 75:14001a,14004a
TI Chlorination of 5-methoxyindole derivatives
AU Bass, R. J.
CS Res. Div., Pfizer Ltd., Sandwich/Kent, UK
SO Tetrahedron (1971), 27(14), 3263-70
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
OS CASREACT 75:88426
AB 5-Methoxyindole-2-carboxylic acid and its Me ester were reacted with N,N-dichlorourethane in HOAc both glacial and aqueous The probable role of water in these substitution reactions was elucidated. Novel chlorinated isatins and oxindoles were obtained and reaction mechanisms for their formation suggested.
IT 33234-31-0P 33234-32-1P 33234-35-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 33234-31-0 CAPLUS
CN 3H-Indole-2-carboxylic acid, 3,3,4-trichloro-5-methoxy-, methyl ester (CA INDEX NAME)



RN 33234-32-1 CAPLUS
CN Indole-2-carboxylic acid, 3,4-dichloro-5-methoxy- (8CI) (CA INDEX NAME)



RN 33234-35-4 CAPLUS
CN 3-Indolinecarboxylic acid, 3,4-dichloro-5-methoxy-2-oxo-, methyl ester (8CI) (CA INDEX NAME)

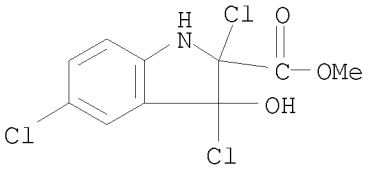


L15 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1970:78795 CAPLUS <<LOGINID::20080505>>
DN 72:78795
OREF 72:14341a,14344a
TI Chlorination of some indole derivatives with ethyl N,N-dichlorocarbamate
AU Muchowski, Joseph M.
CS Bristol Lab. Canada, Candiac, QC, Can.
SO Canadian Journal of Chemistry (1970), 48(3), 422-8
CODEN: CJCHAG; ISSN: 0008-4042
DT Journal
LA English
AB The sole product obtained from the reaction of indole-2-carboxylic acid and Et N,N-dichlorocarbamate was 3,3,5-trichlorooxindole. In contrast, Me indole-2-carboxylate gave a mixture of Me 3,5-dichlorooxindole-3-carboxylate and Me 3,5,7-trichlorooxindole-3-carboxylate, the same products as obtained from the chlorination of Me indole-3-carboxylate. The structures of the products were confirmed by degradation to known compounds and (or) by synthesis, and mechanisms for their formation were suggested.
IT 26450-63-5
RL: RCT (Reactant); RACT (Reactant or reagent)

(3,3,5-trichloro-2-indolinone vs., from chlorination of indolecarboxylic acid by ethyl dichlorocarbamate)

RN 26450-63-5 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2,3,5-trichloro-2,3-dihydro-3-hydroxy-, methyl ester (CA INDEX NAME)



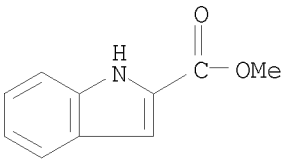
IT 1202-04-6 1477-50-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(chlorination of, by ethyl dichlorocarbamate)

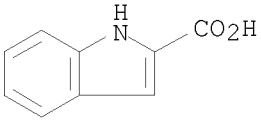
RN 1202-04-6 CAPLUS

CN 1H-Indole-2-carboxylic acid, methyl ester (CA INDEX NAME)



RN 1477-50-5 CAPLUS

CN 1H-Indole-2-carboxylic acid (CA INDEX NAME)



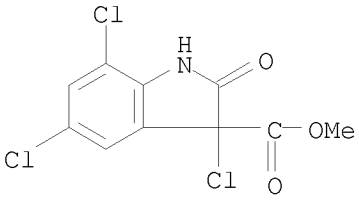
IT 25576-70-9

RL: RCT (Reactant); RACT (Reactant or reagent)

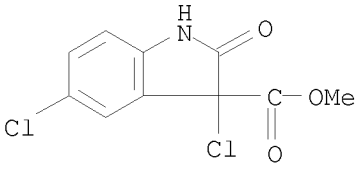
(mixture with methyl dichloroxoindolinecarboxylate)

RN 25576-70-9 CAPLUS

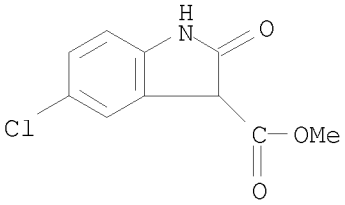
CN 3-Indolinecarboxylic acid, 3,5,7-trichloro-2-oxo-, methyl ester (8CI) (CA INDEX NAME)



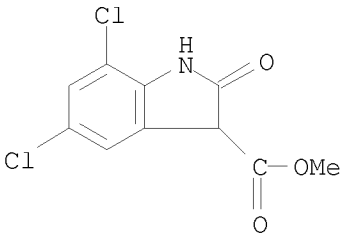
IT 17630-78-3P 25576-71-0P 25617-24-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17630-78-3 CAPLUS
CN 3-Indolinecarboxylic acid, 3,5-dichloro-2-oxo-, methyl ester (8CI) (CA INDEX NAME)



RN 25576-71-0 CAPLUS
CN 1H-Indole-3-carboxylic acid, 5-chloro-2,3-dihydro-2-oxo-, methyl ester (CA INDEX NAME)

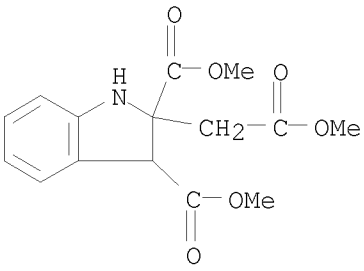


RN 25617-24-7 CAPLUS
CN 3-Indolinecarboxylic acid, 5,7-dichloro-2-oxo-, methyl ester (8CI) (CA INDEX NAME)

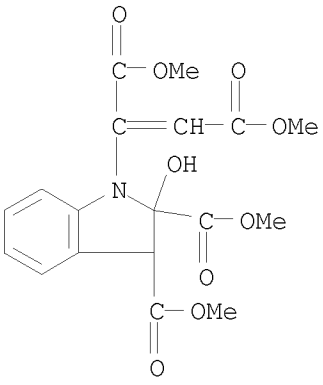


L15 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:449824 CAPLUS <<LOGINID::20080505>>
DN 71:49824
OREF 71:9157a,9160a
TI Additions to triple bonds. XIII. Nitrone adducts with dimethyl acetylene dicarboxylate
AU Winterfeldt, Ekkehard; Krohn, Wolfgang; Stracke, Heinz U.
CS Tech. Univ. Berlin, Berlin, Fed. Rep. Ger.
SO Chemische Berichte (1969), 102(7), 2346-61
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA German

OS CASREACT 71:49824
GI For diagram(s), see printed CA Issue.
AB RN(O):C(CO2Me)CH2CO2Me (R = Me or Et) (E. Winterfeldt and W. Krohn, 1969) reacted at 0° with MeO2CC.tplbond.CCO2Me to give 2-(R-substituted)-3-(carbomethoxymethyl)-3,4,5-tris(carbomethoxy)-4-isoxazoline, which kept at room temperature underwent a Cope rearrangement to give OC(CO2Me)CH(CO2Me)C(CO2Me):C(CO2Me)NHR. The reaction of PhNHOH with MeO2CC.tplbond.CCO2Me gave 2-phenyl-3-(carbomethoxymethyl)-5-(N-phenyl-N-hydroxyamino)-3,4,5-tris(carbomethoxy)isoxazolidine (I).
IT 23893-77-8P 24100-61-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 23893-77-8 CAPLUS
CN 2,3-Indolinedicarboxylic acid, 2-(carboxymethyl)-, trimethyl ester (8CI) (CA INDEX NAME)

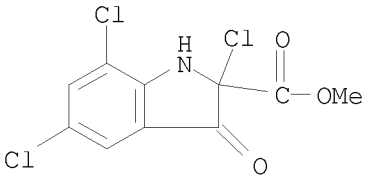


RN 24100-61-6 CAPLUS
CN 2,3-Indolinedicarboxylic acid, 1-(1,2-dicarboxyvinyl)-2-hydroxy-, tetramethyl ester (8CI) (CA INDEX NAME)

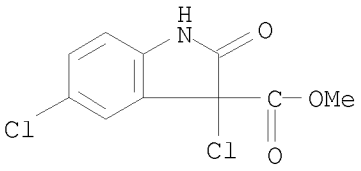


L15 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:47211 CAPLUS <<LOGINID::20080505>>
DN 70:47211
OREF 70:8847a,8850a
TI Pseudohalogens. XII. Reaction of N,N-dichlorourethane with indole and derivatives
AU Foglia, Thomas A.; Swern, Daniel
CS Temple Univ., Philadelphia, PA, USA
SO Journal of Organic Chemistry (1968), 33(12), 4440-2
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal
LA English
OS CASREACT 70:47211
AB Contrary to literature reports, the major product of reaction of Cl2NCO2Et (I) with indole and indole-2- or -3-carboxylic acid is 3,3,5-trichlorooxindole. Reaction of the Me esters with I yields 2-carbomethoxy-2,5,7-trichloroindoxyl and 3-carbomethoxy-3,5-dichlorooxindole, resp. Structures were assigned by phys. and chemical methods. 16 references.
IT 17630-77-2P 17630-78-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17630-77-2 CAPLUS
CN 2-Indolinecarboxylic acid, 2,5,7-trichloro-3-oxo-, methyl ester (8CI) (CA INDEX NAME)



RN 17630-78-3 CAPLUS
CN 3-Indolinecarboxylic acid, 3,5-dichloro-2-oxo-, methyl ester (8CI) (CA INDEX NAME)

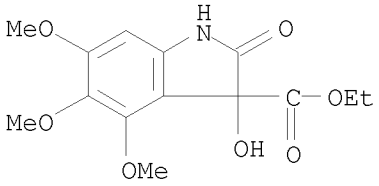


L15 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1965:66385 CAPLUS <<LOGINID::20080505>>
DN 62:66385
OREF 62:11763a-g
TI Synthesis of N-containing heterocyclic compounds possessing physiological activity
AU Colwell, W. T.; Horner, J. K.; Skinner, W. A.
SO United States Department of Commerce, Office of Technical Services, PB Report (1964), AD 435,889, 33 pp.
CODEN: XCPRAL; ISSN: 0099-8567
DT Journal
LA English
AB 5-Chloroindole treated with oxalyl chloride gave 3-(5-chloroindolyl)glyoxalyl chloride (I). I with Me2NH and NH3 formed N,N-dimethyl-3-(5-chloroindole)glyoxylamide (II), m. 187.5-89°, and 3-(5-chloroindole)glyoxylamide (III), m. 292-3.5° (decomposition), resp. II and III on reduction with LiAlH4 gave 5-chloro-3-(β-dimethylaminoethyl)indole (HCl salt m. 193-3.5°) and 5-chloro-3-(β-aminoethyl)indole [HCl salt m. 277-8° (decomposition)], resp. Diazotized p-methoxyaniline on reduction gave the

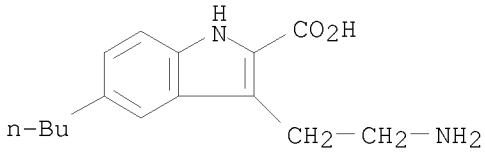
hydrazide (IV), and the hydrazone of IV with EtMeCO was treated with H_2SO_4 to give 5-methoxy-2,3-dimethylindole, m. 108-12.5°. IV treated with iso-BuMeCO (V) followed by heating with H_2SO_4 and EtOH gave 5-methoxy-2-methyl-3-(1-methylethyl)indole, m. 110-13°. The hydrazone (m. 80-1°) from V with p-nitrophenylhydrazine on heating with concentrated HCl and C_6H_6 gave 2-methyl-3-(1-methylethyl)-5-nitroindole (VI), m.. 166-7.5°. Reduction of VI gave 5-amino-2-methyl-3-(1-methylethyl)indole, m. 124.5-5.5°. Reaction of $HCONMe_2$ and $POCl_3$ with 5-bromoindole and 5-chloroindole yielded 5-bromoindole- (VII, m. 200-5°) and 5-chloroindole-3-carboxaldehyde (VIII), m. 213.5-14°, resp. VII was refluxed with nitroethane in the presence of piperidine under N in benzene to give 5-bromo-3-(2-nitropropenyl)indole (IX), m. 220-1°. VIII similarly gave the 5-chloro analog (X), m. 203-3.5°. IX and X on reduction with $LiAlH_4$ yielded 5-bromo-, m. 108-9.5° and 5-chloro-3-(2-aminopropyl)indole, m. 97-104°, resp. Reaction of 5-bromoindole with HCHO and Me_2NH under N gave 5-bromogramine (XI), m. 147-52°. XI heated with 2-nitropropane and NaOH to 110-20° under N gave 5-bromo-3-(2-methyl-2-nitropropyl)indole (XIa), m. 109-9.5°. Gramine heated with 2-nitropropane and NaOH at 110-20° under N gave 3-(2-methyl-2-nitropropyl)indole, m. 75-5.2°. 3-(3-Methyl-2-nitropropyl)indole was similarly prepared, m. 75.5-76°. Reduction of Xla with iron filings and aqueous AcOH yielded 5-bromo-α,α-dimethyltryptamine, m. 161.5-2.0°. 5-Chlorogramine, m. .apprx.140°, prepared like XI was treated with 2-nitropropane and the product reduced with iron filings and aqueous AcOH to yield 5-chloro-α,α-dimethyltryptamine, m. 156-7.5°. Aqueous K 2-piperidone-3-carboxylate was treated with diazotized 4-butylaniline to give 2,3-piperidione 3-(4-butylphenyl)hydrazone (XII), m. 194-7° (XII). The hydrochloride of XII was refluxed 15 min. to yield 6-butyl-1,2,3,4-tetrahydro-1-oxo-β-carboline (XIII), m. 150°. XIII refluxed with aqueous KOH in ethanol gave 3-(2-aminoethyl)-5-butylindole-2-carboxylic acid (XIV), m. 208-12°. Refluxing XIV with 2N HCl in AcOH gave 5-butyltryptamine hydrochloride, m. 235°. Diazotized 4-benzylthioaniline was treated with K 2-piperidone-3-carboxylate and the 2,3-piperidione 3-(4-benzylthiophenyl)hydrazone, m. 203-5°, formed was converted into the hydrochloride, which was boiled to give 6-benzylthio-1,2,3,4-tetrahydro-1-oxo-β-carboline (XV), m. 197-8°. XV was refluxed overnight with aqueous KOH and ethanol to give 3-(2aminoethyl)-5-benzylthioindole-2-carboxylic acid (XVI), m. 220-3°. Heating XVI with 2N HCl and AcOH gave 5-benzyl-thiotryptamine, m. 213-14°. Reaction of EtMgBr with 4,5,6-trimethoxyisatin, m. .apprx.210° (decomposition), yielded ethyl-4,5,6-trimethoxydioxindole, m. 132.5-3.4°. p-Benzylthioaniline reacted with diethyl oxomalonate in HOAc under N to give 5-benzylthio-3-carbethoxydioxindole, m. 153.5-54°, which was dissolved in aqueous NaOH and air bubbled for 0.5 hr. on a steam bath to give 5-benzylthioisatin, m. 181-3°. Also prepared were 5-amino-2,3,3-trimethylindolenine, m. 178°, 4,5,6-trimethoxy-3-hydroxy-3-carbethoxyindole, m. .apprx.85°, α,α-dimethyltryptamine, m. 122-2.5°, 3-acetylindole, m. 189-90°, 3-indolylacetonitrile, b0.4 164°, 3-(5-bromoindolyl)acetonitrile, m. 105-9°, 3-(5-bromo-1-benzylindolyl)acetonitrile, m. 96-7°, and 5-chloro-3-(2-methyl-2-nitropropyl)indole. Structure-activity relations were discussed.

IT 795-81-3P, 3-Indolinecarboxylic acid, 3-hydroxy-4,5,6-trimethoxy-2-oxo-, ethyl ester 842-25-1P, Indole-2-carboxylic acid, 3-(2-aminoethyl)-5-butyl- 851-93-4P, Indole-2-carboxylic acid, 3-(2-aminoethyl)-5-(benzylthio)- 903-18-4P, 3-Indolinecarboxylic acid, 5-(benzylthio)-3-hydroxy-2-oxo-, ethyl ester
RL: PREP (Preparation)

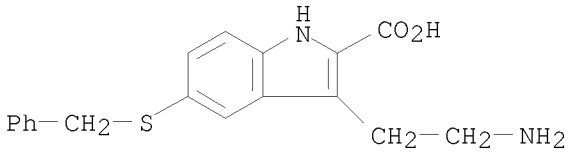
(preparation of)
RN 795-81-3 CAPLUS
CN 3-Indolinecarboxylic acid, 3-hydroxy-4,5,6-trimethoxy-2-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



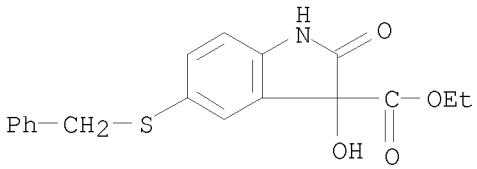
RN 842-25-1 CAPLUS
CN Indole-2-carboxylic acid, 3-(2-aminoethyl)-5-butyl- (7CI, 8CI) (CA INDEX NAME)



RN 851-93-4 CAPLUS
CN Indole-2-carboxylic acid, 3-(2-aminoethyl)-5-(benzylthio)- (7CI, 8CI) (CA INDEX NAME)



RN 903-18-4 CAPLUS
CN 3-Indolinecarboxylic acid, 5-(benzylthio)-3-hydroxy-2-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



L15 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1964:469028 CAPLUS <<LOGINID::20080505>>
DN 61:69028
OREF 61:11957g-h

TI Addition reactions of heterocyclic compounds. XX. The bromination and rearrangement of trimethyl 1-methylindole- 2,3,4-tricarboxylate

AU Acheson, R. M.; Snaith, R. W.; Vernon, J. M.
CS Univ. Oxford, UK

SO Journal of the Chemical Society (1964), (Sept.), 3229-33
CODEN: JCSOA9; ISSN: 0368-1769
DT Journal
LA Unavailable

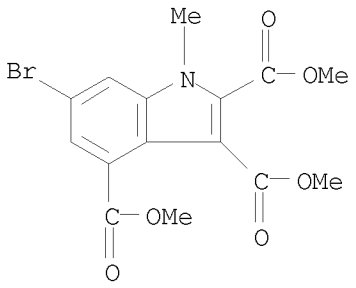
GI For diagram(s), see printed CA Issue.

AB cf. CA 61, 11880α. Trimethyl 1-methyl-indole-2,3,4-tricarboxylate with Br in aqueous AcOH gave trimethyl 5-bromo-1-methyloxindole-3,3,4-tricarboxylate (I), the structure of which was established from spectral comparisons and by step-wise degradation to 1-methyloxindole. The mechanism of the 1,2-ester shift is discussed.

IT 93432-32-7
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 93432-32-7 CAPLUS

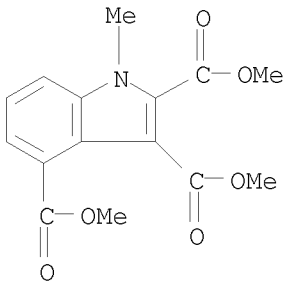
CN Indole-2,3,4-tricarboxylic acid, 6-bromo-1-methyl-, trimethyl ester (7CI) (CA INDEX NAME)



IT 969-47-1, Indole-2,3,4-tricarboxylic acid, 1-methyl-, trimethyl ester
(bromination and rearrangement of)

RN 969-47-1 CAPLUS

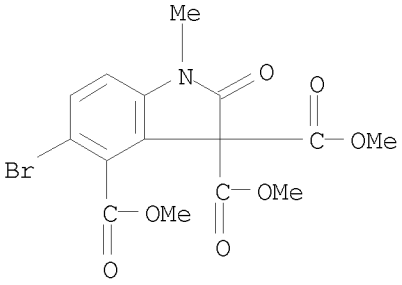
CN 1H-Indole-2,3,4-tricarboxylic acid, 1-methyl-, 2,3,4-trimethyl ester (CA INDEX NAME)



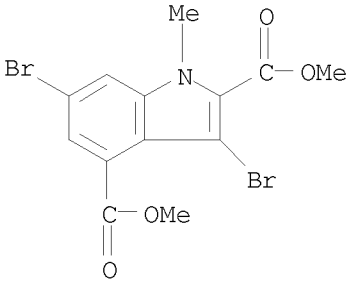
IT 82633-33-8P, 3,3,4-Indolinetricarboxylic acid, 5-bromo-1-methyl-2-oxo-, trimethyl ester 92022-63-4P, Indole-2,4-dicarboxylic acid, 3,6-dibromo-1-methyl-, dimethyl ester 92022-64-5P, 3,4-Indolinedicarboxylic acid, 3,5-dibromo-1-methyl-2-oxo-, dimethyl ester 92060-17-8P, 3,4-Indolinedicarboxylic acid, 3,5,6-tribromo-1-methyl-2-oxo-, dimethyl ester 92851-95-1P,

3,3,4-Indolinetricarboxylic acid, 1-methyl-2-oxo-, trimethyl ester
97026-40-9P, 3,4-Indolinedicarboxylic acid, 5-bromo-1-methyl-2-oxo-, dimethyl ester
RL: PREP (Preparation)
(preparation of)

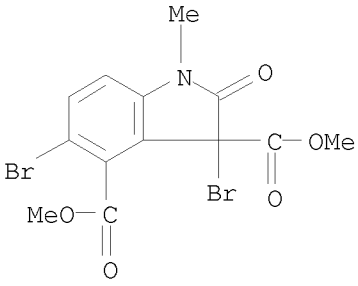
RN 82633-33-8 CAPLUS
CN 3H-Indole-3,3,4-tricarboxylic acid, 5-bromo-1,2-dihydro-1-methyl-2-oxo-, trimethyl ester (9CI) (CA INDEX NAME)



RN 92022-63-4 CAPLUS
CN Indole-2,4-dicarboxylic acid, 3,6-dibromo-1-methyl-, dimethyl ester (7CI) (CA INDEX NAME)

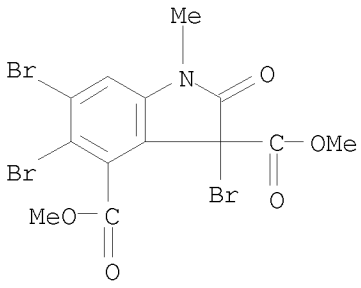


RN 92022-64-5 CAPLUS
CN 3,4-Indolinedicarboxylic acid, 3,5-dibromo-1-methyl-2-oxo-, dimethyl ester (7CI) (CA INDEX NAME)

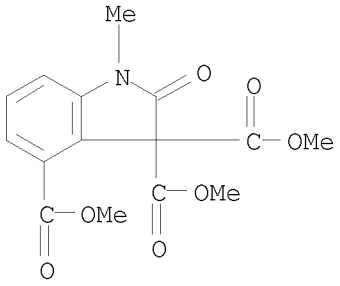


RN 92060-17-8 CAPLUS
CN 3,4-Indolinedicarboxylic acid, 3,5,6-tribromo-1-methyl-2-oxo-, dimethyl

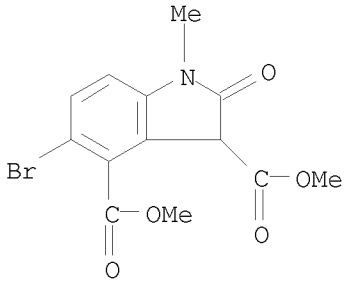
ester (7CI) (CA INDEX NAME)



RN 92851-95-1 CAPLUS
CN 3,3,4-Indolinetricarboxylic acid, 1-methyl-2-oxo-, trimethyl ester (7CI)
(CA INDEX NAME)

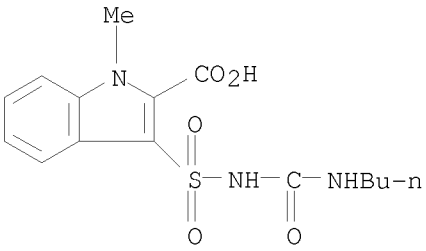


RN 97026-40-9 CAPLUS
CN 3,4-Indolinedicarboxylic acid, 5-bromo-1-methyl-2-oxo-, dimethyl ester
(7CI) (CA INDEX NAME)

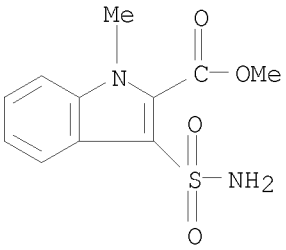


L15 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1964:23245 CAPLUS <<LOGINID::20080505>>
DN 60:23245
OREF 60:4088h,4089a-c
TI Reaction of indole derivatives with thionyl and sulfuryl chlorides
AU Szmuszkovicz, Jacob
CS Upjohn Co., Kalamazoo, MI
SO Journal of Organic Chemistry (1964), 29(1), 178-84

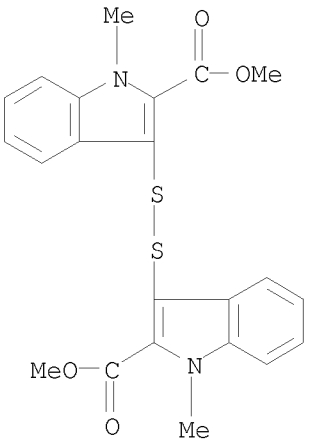
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
OS CASREACT 60:23245
GI For diagram(s), see printed CA Issue.
AB Reaction of 1-methylindole-2-carboxylic acid, the corresponding methyl ester (I), and of Et indole-2-carboxylate with thionyl chloride afforded sulfinyl chlorides (II, III, and IV, resp.). Thionyl chloride and N,1-dimethylindole-2-carboxamide led to sulfide (V, R = CONHMe) and imide sulfoxide (VI). III was converted to several sulfinamides (VII) on treatment with amines. VII were oxidized with permanganate to sulfonamides (VIII). Treatment of III with hydrazine in the cold gave disulfide (IX, R = CO2Me) (X), which was transformed to IX (R = CONHNH2) on heating with hydrazine. Monosulfide (V, R = CO2Me), disulfide X, and trisulfide XI were obtained from the reaction of I with sulfur monochloride. Reaction of 1-methylindole-2-carboxylic acid hydrazide with sulfuryl chloride led to the dichloro compound (XII), and I with sulfuryl chloride afforded the tetrachloro compound (XIII) and the hexachloro compound (XIV).
IT 3678-04-4P, Indole-2-carboxylic acid, 3-[(butylcarbamoyl)sulfamoyl]-1-methyl- 3678-05-5P, Indole-2-carboxylic acid, 1-methyl-3-sulfamoyl-, methyl ester 3678-09-9P, Indole-2-carboxylic acid, 3,3'-dithiobis[1-methyl-, dimethyl ester 3678-10-2P, Indole-2-carboxylic acid, 3-(chlorosulfinyl)-1-methyl-, methyl ester 3835-62-9P, Indole-2-carboxylic acid, 3-(aminosulfinyl)-1-methyl-, methyl ester 3954-44-7P, Indole-2-carboxylic acid, 3-[(butylcarbamoyl)sulfamoyl]-1-methyl-, methyl ester 7272-69-7P, Indole-2-carboxylic acid, 1-methyl-3-(piperidinosulfinyl)-, methyl ester 7272-70-0P, Indole-2-carboxylic acid, 3-(aminosulfinyl)-, ethyl ester 7273-26-9P, Indole-2-carboxylic acid, 1-methyl-3-[(methylamino)sulfinyl]-, methyl ester 7273-27-0P, Indole-2-carboxylic acid, 3-[(dimethylamino)sulfinyl]-1-methyl-, methyl ester 82633-33-8P, 3,3,4-Indolinetricarboxylic acid, 5-bromo-1-methyl-2-oxo-, trimethyl ester 88613-08-5P, Indole-2-carboxylic acid, 1-methyl-3-sulfino-, dimethyl ester 91088-34-5P, Indole-2-carboxylic acid, 3-sulfamoyl-, ethyl ester 91349-20-1P, Indole-2-carboxylic acid, 3-(chlorosulfinyl)-, ethyl ester 91567-95-2P, Indole-2-carboxylic acid, 1-methyl-3-(methylsulfamoyl)-, methyl ester 92109-30-3P, Indole-2-carboxylic acid, 3-(dimethylsulfamoyl)-1-methyl-, methyl ester 93538-46-6P, Indole-2-carboxylic acid, 1-methyl-3-(piperidinosulfonyl)-, methyl ester 94691-31-3P, Indole-2-carboxylic acid, tetrachloro-1-methyl-, methyl ester 94691-32-4P, 2-Indolinecarboxylic acid, hexachloro-1-methyl-, methyl ester 95006-41-0P, Indole-2-carboxylic acid, 3,3'-trithiobis[1-methyl-, dimethyl ester 95006-48-7P, Indole-2-carboxylic acid, 3,3'-sulfinylbis[1-methyl-, dimethyl ester 95006-49-8P, Indole-2-carboxylic acid, 3,3'-sulfinyldi-, diethyl ester 95706-97-1P, 2-Indolinecarboxylic acid, trichloro-2-methoxy-1-methyl-3-oxo-, methyl ester 96171-80-1P, Indole-2-carboxylic acid, 3,3'-thiobis[1-methyl-, dimethyl ester 97062-57-2P, Indole-2-carboxylic acid, 1-methyl-3-sulfeno-, 2-methyl ester
RL: PREP (Preparation)
(preparation of)
RN 3678-04-4 CAPLUS
CN Indole-2-carboxylic acid, 3-[(butylcarbamoyl)sulfamoyl]-1-methyl- (7CI, 8CI) (CA INDEX NAME)



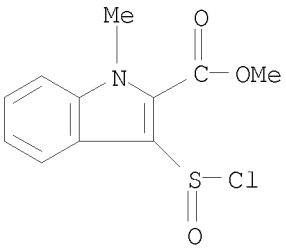
RN 3678-05-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3-(aminosulfonyl)-1-methyl-, methyl ester (CA INDEX NAME)



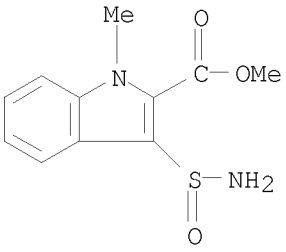
RN 3678-09-9 CAPLUS
CN Indole-2-carboxylic acid, 3,3'-dithiobis[1-methyl-, dimethyl ester (7CI, 8CI) (CA INDEX NAME)



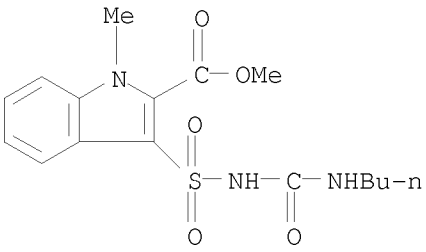
RN 3678-10-2 CAPLUS
CN Indole-2-carboxylic acid, 3-(chlorosulfinyl)-1-methyl-, methyl ester (7CI, 8CI) (CA INDEX NAME)



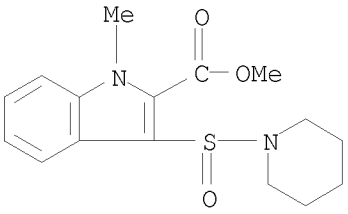
RN 3835-62-9 CAPLUS
CN Indole-2-carboxylic acid, 3-(aminosulfinyl)-1-methyl-, methyl ester (7CI, 8CI) (CA INDEX NAME)



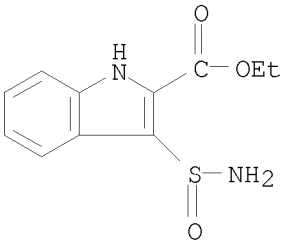
RN 3954-44-7 CAPLUS
CN Indole-2-carboxylic acid, 3-[(butylcarbamoyl)sulfamoyl]-1-methyl-, methyl ester (7CI, 8CI) (CA INDEX NAME)



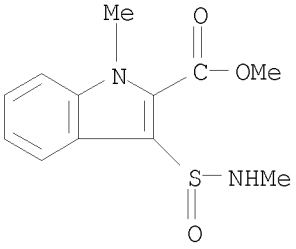
RN 7272-69-7 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-(piperidinosulfinyl)-, methyl ester (7CI, 8CI) (CA INDEX NAME)



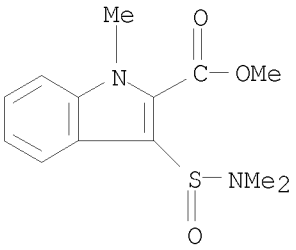
RN 7272-70-0 CAPLUS
CN Indole-2-carboxylic acid, 3-(aminosulfinyl)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



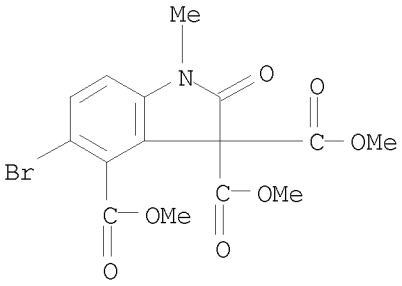
RN 7273-26-9 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-[(methylamino)sulfinyl]-, methyl ester (7CI, 8CI) (CA INDEX NAME)



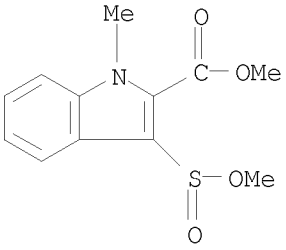
RN 7273-27-0 CAPLUS
CN Indole-2-carboxylic acid, 3-[(dimethylamino)sulfinyl]-1-methyl-, methyl ester (7CI, 8CI) (CA INDEX NAME)



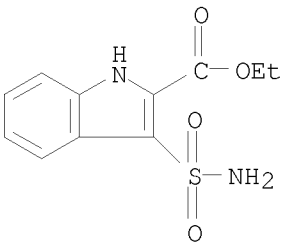
RN 82633-33-8 CAPLUS
CN 3H-Indole-3,3,4-tricarboxylic acid, 5-bromo-1,2-dihydro-1-methyl-2-oxo-, trimethyl ester (9CI) (CA INDEX NAME)



RN 88613-08-5 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-sulfino-, dimethyl ester (7CI) (CA INDEX NAME)



RN 91088-34-5 CAPLUS
CN Indole-2-carboxylic acid, 3-sulfamoyl-, ethyl ester (7CI) (CA INDEX NAME)



RN 91349-20-1 CAPLUS
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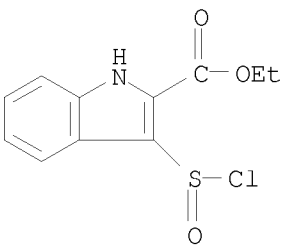
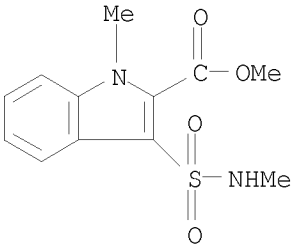
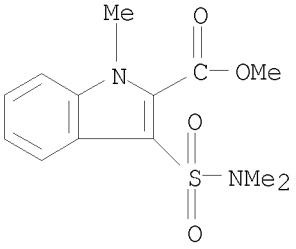


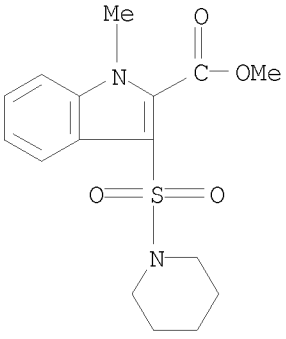
RN 91567-95-2 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-(methylsulfamoyl)-, methyl ester (7CI) (CA INDEX NAME)



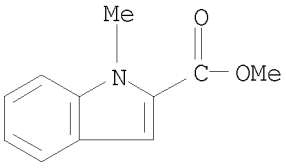
RN 92109-30-3 CAPLUS
CN Indole-2-carboxylic acid, 3-(dimethylsulfamoyl)-1-methyl-, methyl ester (7CI) (CA INDEX NAME)



RN 93538-46-6 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-(piperidinosulfonyl)-, methyl ester (7CI) (CA INDEX NAME)

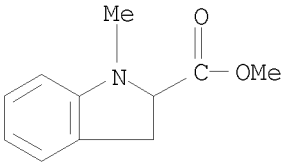


RN 94691-31-3 CAPLUS
CN Indole-2-carboxylic acid, tetrachloro-1-methyl-, methyl ester (7CI) (CA INDEX NAME)



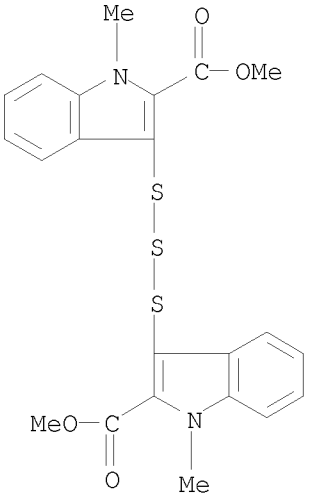
4 (D1—Cl)

RN 94691-32-4 CAPLUS
CN 2-Indolinecarboxylic acid, hexachloro-1-methyl-, methyl ester (7CI) (CA INDEX NAME)

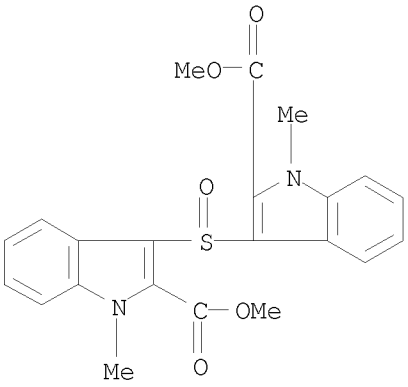


6 (D1—Cl)

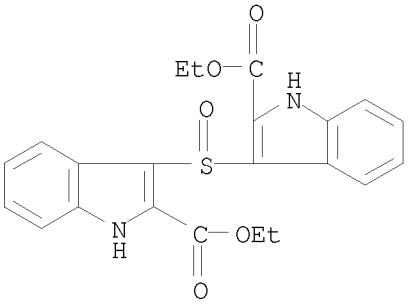
RN 95006-41-0 CAPLUS
CN Indole-2-carboxylic acid, 3,3'-trithiobis[1-methyl-, dimethyl ester (7CI) (CA INDEX NAME)



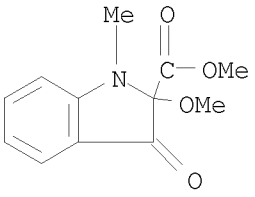
RN 95006-48-7 CAPLUS
CN Indole-2-carboxylic acid, 3,3'-sulfinylbis[1-methyl-, dimethyl ester (7CI) (CA INDEX NAME)



RN 95006-49-8 CAPLUS
CN Indole-2-carboxylic acid, 3,3'-sulfinyldi-, diethyl ester (7CI) (CA INDEX NAME)

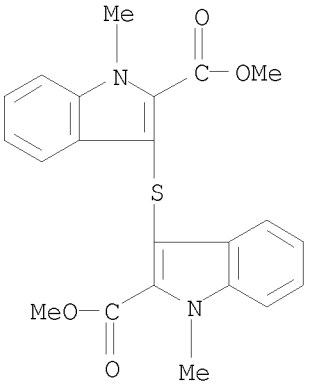


RN 95706-97-1 CAPLUS
CN 2-Indolinecarboxylic acid, trichloro-2-methoxy-1-methyl-3-oxo-, methyl ester (7CI) (CA INDEX NAME)

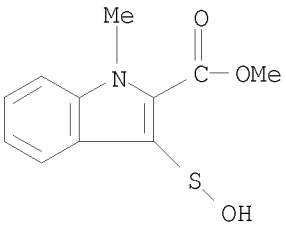


3 (D1—Cl)

RN 96171-80-1 CAPLUS
CN Indole-2-carboxylic acid, 3,3'-thiobis[1-methyl-, dimethyl ester (7CI) (CA INDEX NAME)



RN 97062-57-2 CAPLUS
CN Indole-2-carboxylic acid, 1-methyl-3-sulfeno-, 2-methyl ester (7CI) (CA INDEX NAME)



L15 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1958:104210 CAPLUS <<LOGINID::20080505>>
DN 52:104210
OREF 52:18371b-i,18372a-g
TI Mescaline analogs. VIII. Substituted 5-methoxy- and 5,6,7-trimethoxyindoles
AU Benington, F.; Morin, R. D.; Clark, Leland C., Jr.
CS Battelle Mem. Inst., Columbus, O.
SO Journal of Organic Chemistry (1958), 23, 19-23
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
OS CASREACT 52:104210
AB cf. C.A. 52, 1938c, 2834g. Cyclization of appropriately substituted open chain amines gave various 5-methoxy- and 5,6,7-trimethoxyindole derivs. for use in the preparation of certain key compds. needed for examination of the indole hypothesis of psychotomimetic drug activity. Various routes were investigated for the preparation of the chosen intermediate, 2,3,4-(MeO)3C6H2NH2 (I). Oxidation of 2,3,4-(MeO)3C6H2Ac with NaOCl resulted in considerable nuclear halogenation and accordingly, preparation of I from 2,3,4-(MeO)3C6H2CONH2 by the Hoffmann reaction was abandoned. Nitration of pyrogallol carbonate according to Einhorn [Ber. 37, 100(1904)], saponification to 4-nitropyrogallol and treatment of the product with alkaline Me2SO4 or CH2N2 in Et2O failed to give a completely methylated product. Both routes evidently give compds. soluble in dilute NaOH and containing

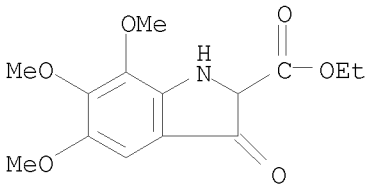
free phenolic OH groups. Ac2O (155 ml.) and 130 g. 2,6-(MeO)2C6H3OH refluxed 3.5 hrs. and the mixture evaporated in vacuo yielded 99% 2,6-(MeO)2C6H3OAc, b1.5 118-19°. Concentrated HNO3 (195 ml.) and 21.7 ml. white fuming HNO3 treated dropwise in 40 min. with 65 g. acetate at 13-16° and the mixture stirred 10 min., poured into 1080 ml. ice H2O containing urea, filtered, and the dried product (54.2 g., m. 90-2°) recrystd. (dilute alc.) gave pure 5,2,6-O2N(MeO)2C6H2OAc, m. 94-5°, refluxed (47 g.) in 2N NaOH 30 min. and the cooled solution acidified with 225 ml. 10% HCl to give 39.3 g. 5,2,6-O2N(MeO)2C6H3OH.2H2O, m. 67-9°, methylated in 50 ml. alc. by adding 65 ml. Me2SO4 and gradually treating the cooled solution with 35 g. NaOH in 40 ml. H2O, diluting with 500 ml. cold H2O, and cooling to 0° to give 38 g. 2,3,4-(MeO)3C6H2NO2 (II), m. 44-5°. SnCl12.2H2O (160 g.) and 160 ml. concentrated HCl stirred at 0° with addition of 37.9 g. II with rise of temperature to 97° and the solution cooled (ice-bath) to room temperature, the solution treated with 285 g. NaOH and diluted with a large volume of H2O, the mixture exhaustively extracted with Et2O and the dried (MgSO4) extract filtered, evaporated, and the residue distilled in vacuo gave 26.9 g. I, b0.8 111-14°. Various trimethoxyindoles were prepared from I. I (34.7 g.) and 22.7 g. CHBr(CO2Et)2 refluxed 11 hrs. in 100 ml. dry pure C6H6 and the mixture kept overnight at room temperature, filtered from I HBr salt (16.5 g.) and the concentrated filtrate cooled and filtered from 3.6 g. I HBr salt, the filtrate evaporated in vacuo, and the crude phenylaminomalonic ester distilled in a high vacuum gave 700 mg. 2-carbethoxy-5,6,7-trimethoxyindoxyl (III), m. 118-19° (C6H6-ligroine). OC(CO2Et)2 condensed smoothly with 3,4,5-(MeO)3C6H2NH2 (C.A. 50, 9381a). I (1.8 g.) in 10 ml. AcOH and 1.9 g. OC(CO2Et)2 heated 10 min. on a steam bath and the solution kept 2 hrs. at room temperature, diluted with 125 ml. H2O and adjusted to pH 8 with solid (NH4)2CO3, the oily product taken up in Et2O, and the dried (MgSO4) extract evaporated yielded 700 mg. pure 3-carbethoxy-3-hydroxy-5,6,7-trimethoxyoxindole, C14H17NO7, m. 142-3° (Et2O-petr. ether). I HBr salt (13.2 g.) in 30 ml. H2O treated with 25 ml. 25% NaOH and extracted with Et2O, the dried (CaCl2) extract evaporated (N atmospheric) and the residue refluxed 12 min. with 5.3 g. BzH in 6 ml. alc., the cooled mixture filtered, and the solid recrystd. (alc.-H2O) gave 11.8 g. 2,3,4-(MeO)3C6H2N:CHPh (IV), m. 104-5°. IV (11 g.) in 66 ml. dioxane (prereduced over Raney Ni) hydrogenated 13-15 min. at 30 lb./sq. in. in a Parr hydrogenation apparatus and the filtered solution evaporated in vacuo, the residue diluted with 125 ml. H2O, and extracted with Et2O gave 9.5 g. 2,3,4-(MeO)3C6H2NHCH2Ph (V), m. 63-4° (95% alc.). V (2.0 g.) and 1.22 g. OC(CO2Et)2.2H2O heated 10 min. on a steam bath in 8 ml. AcOH and kept 20 min. at room temperature, diluted with H2O and made alkaline, extracted with Et2O, and the product crystallized (alc.) (Norit) yielded 54% 1-benzyl-3-carbethoxy-5,6,7-trimethoxydioxindole, C21H23NO7, m. 185-6°. V with BrCH2CH2Cl did not give the expected 2,3-dehydroindole which, on hydrogenolysis should yield 5,6,7-trimethoxy-2,3-dihydroindole, a possible oxidative cyclization product of mescaline (C.A. 52, 2834g). V (3.0 g.) in 15 ml. BrCH2CH2Cl refluxed 15 hrs. and the mixture treated with 10% HCl, the mixture steam distilled and the clear distillate made strongly alkaline with 20% NaOH, extracted 3 times with Et2O, and the product (250 mg., m. 172-3°) sublimed in a high vacuum gave N,N'-bis(2,3,4-trimethoxyphenyl)piperazine, m. 176-7°. V was unchanged through reaction with glyoxal Na bisulfite (cf. Burton, C.A. 26, 2456) and with chloral hydrate and HONH2 gave an

intractable tar. Both p-MeOC6H4NHCH2Ph (VI) and p-MeOC6H4NHMe (VII) were examined in connection with their tendencies to form isatins which might be converted to indole derivs. BzH (21.2 g.) added to 24.6 g. p-MeOC6H4NH2 in 20 ml. alc. and warmed 10 min. on a steam bath, the cooled mixture filtered, and the Schiff base recrystd. (alc.) gave 34.5 g. pure p-Me-OC6H4N:CHPh, m. 73-4°, hydrogenated (33.2 g.) in dioxane with Raney Ni 13-15 min. at 30 lb./sq. in. to give 31.3 g. VI. VI (3.0 g.) in 8.4 ml. H2O containing 1.5 ml. concentrated HCl poured into 33 ml. H2O containing 3.0 g.
CCl3CHO.H2O and 31 g. Na2SO4.10H2O and the mixture heated 20 min. on a steam bath with 3.1 g. HONH2.HCl in 14 ml. H2O, the cooled mixture decanted and the oily layer taken up in EtOAc, the solution decolorized (Norit) and the filtered solution concentrated, the cooled concentrate filtered, and the precipitate
recrystd. (EtOAc) gave 200 mg. N,N'-bis(4-methoxyphenyl)-N,N'-bis-(benzyloxamide), C30H28N2O4, m. 179-80°. N-Formylation of p-MeOC6H4NH2 with 90% HCO2H yielded 91% p-Me-OC6H4NHCHO (VIII), b0.5 156-9°, m. 84-5°. VIII (37.8 g.) in 150 ml. hot dry C6H6 gradually added to 14.2 g. LiAlH4 in 250 ml. dry Et2O and the mixture refluxed 1 hr., hydrolyzed by cautious addition of H2O and the filtered organic layer dried (anhydrous MgSO4), the extract evaporated in vacuo, and distilled gave 27.8
g. VII, b0.2 80-4°, m. 35°. CCl3CHO.H2O (18 g.) and 260 g. Na2SO4.10H2O in 240 ml. H2O and 13.7 g. VII in 60 ml. H2O containing 8.6 ml. concentrated HCl heated 15-20 min. on a steam bath with 22 g. HONH2.HCl in 100 ml. H2O and the cooled solution filtered, the dried product (11.5 g.) taken up in AcOEt and decolorized (Norit), diluted with petr. ether, and filtered gave p-MeOC6H4NMeCOCH:NOH (IX), C10H12N2O3.H2O, m. 116-17°. Concentrated H2SO4 (40 ml.) at 50° on a steam bath, treated with 9.6 g. IX at a rate maintaining the temperature at 60-70° and the blue-violet solution kept 10 min. at 80°, cooled to room temperature and poured onto 450 cracked ice, filtered and the product washed acid-free with H2O, dried, and the product (7.2 g., m. 175-6°) recrystd. (MeOH-H2O) gave 5-methoxy-1-methylisatin, m. 176°; this stirred in 30 ml. boiling H2O with 7.0 g. NaHSO3, and the clear solution refrigerated overnight, filtered, and the dried product (4.9 g., m. 158-60°) recrystd. (boiling H2O) yielded pure 5-methoxy-1-methyldioxindole (X), m. 165°. LiAlH4 (1.9 g.) stirred vigorously in 100 ml. dry Et2O with addition of 3.3 g. X in 120 ml. dry C6H6 and the mixture refluxed 3.75 hrs., cooled to 0° and hydrolyzed with a small amount of H2O, the filtered organic layer dried (MgSO4) and evaporated in vacuo, refrigerated, and the product (2.2 g., m. 75-80°) recrystd. (Et2O-petr. ether) yielded 900 mg. 5-methoxy-1-methylindole, m. 104-5°; picrate, m. 98-100° (cf. Bell and Lindwall, C.A. 44, 604a).

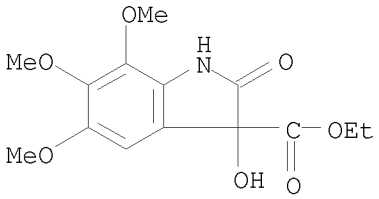
IT 100719-35-5P, 2-Indolinecarboxylic acid, 5,6,7-trimethoxy-3-oxo-, ethyl ester 100719-43-5P, 3-Indolinecarboxylic acid, 3-hydroxy-5,6,7-trimethoxy-2-oxo-, ethyl ester 102449-85-4P, 3-Indolinecarboxylic acid, 1-benzyl-3-hydroxy-5,6,7-trimethoxy-2-oxo-, ethyl ester
RL: PREP (Preparation)
(preparation of)

RN 100719-35-5 CAPLUS

CN 2-Indolinecarboxylic acid, 5,6,7-trimethoxy-3-oxo-, ethyl ester (6CI) (CA INDEX NAME)



RN 100719-43-5 CAPLUS
CN 3-Indolinecarboxylic acid, 3-hydroxy-5,6,7-trimethoxy-2-oxo-, ethyl ester (6CI) (CA INDEX NAME)



RN 102449-85-4 CAPLUS
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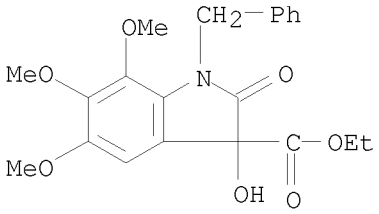
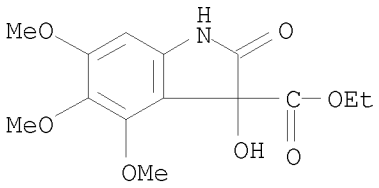


L15 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1956:48695 CAPLUS <<LOGINID::20080505>>
DN 50:48695
OREF 50:9381a-d
TI Mescaline analogs. IV. Substituted 4,5,6-trimethoxyindoles
AU Benington, F.; Morin, R. D.; Clark, Leland C., Jr.
CS Battelle Memorial Inst., Columbus, O.
SO Journal of Organic Chemistry (1955), 20, 1454-7
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA Unavailable
AB cf. C.A. 50, 8497i. Trimethylgalloyl chloride and NH3 give 100% 3,4,5-(MeO)3C6H2CONH2, which (80 g.), added to a NaOCl solution (prepared by passing 28.3 g. Cl into 590 cc. H2O containing 95 g. NaOH and 360 g. ice), the temperature allowed to rise to 65-70° within 1 hr., 130 g. NaOH in 130 cc. H2O added, and the mixture kept another hr. at 700 gives 66% 3,4,5-(MeO)3C6H2NH2 (I), m. 116-18°. Refluxing 4 hrs. 36.6 g. I and 23.9 g. CHBr(CO2Et)2 in 125 cc. C6H6 gives 50% 3,4,5-(MeO)3C6H2NHCH(CO2Et)2 (II), m. 103-4°. Adding with stirring 9.9

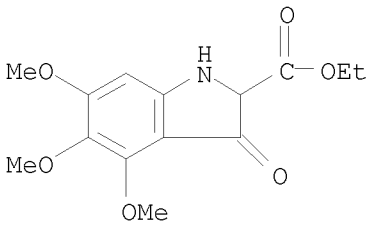
g. II to 46 cc. Nujol preheated to 245-50°, keeping the mixture 0.75 hr. at 240-50°, taking up the precipitate in Et2O, and recrystg. the residue of the Et2O solution gives 14% Et 4,5,6-trimethoxyindoxyl-2-carboxylate, yellow prisms, m. 168-9°, which, methylated with Me2SO4 and 2N KOH, yields 41% 3,4,5,6-tetramethoxy-2-carbethoxyindole, greenish white needles, m. 135-6°. Treating 1.8 g. I in 10 cc. AcOH with 1.9 g. CO(CO2Et)2.2H2O 10 min. on a steam bath and 2 hrs. at 20° gives 86.8% 4,5,6-trimethoxy-3-hydroxy-3-carbethoxyoxindole (III), prisms, m. 189-90°. Passing air into 450 mg. III in 5 cc. 5% NaOH 10 min. and adjusting the pH of the mixture to 4 with 95% HCO2H gives 100 mg. 4,5,6-trimethoxyisatin, orange platelets, m. 194-5° (decomposition). Refluxing 40 hrs. 1.4 g. I and 7.3 cc. Cl(CH2)2Br, adding dilute HCl, and steam-distilling the mixture, then adding a large excess of 20% NaOH and extracting with Et2O-CHCl3 gives 400 mg. 1,4-bis(3,4,5-trimethoxyphenyl)piperazine, prisms, m. 201-2°, which is not benzoylated or acetylated by the usual methods. Refluxing 7.2 g. I, 4.8 g. CH2ClCOCl, and 60 cc. Me2CO 72 hrs., pouring the mixture into dilute HCl, and extracting with Et2O gives 68% 3,4,5-(MeO)3C6H2NHCOCH2Cl, m. 119-20°, which fails to undergo a catalytic cyclization to the 2,3-dihydroindole.

IT 795-81-3P, 3-Indolinecarboxylic acid, 3-hydroxy-4,5,6-trimethoxy-2-oxo-, ethyl ester 855604-65-8P, 2-Indolinecarboxylic acid, 4,5,6-trimethoxy-3-oxo-, ethyl ester 858233-74-6P, 2-Indolecarboxylic acid, 3,4,5,6-tetramethoxy-, ethyl ester
RL: PREP (Preparation)
(preparation of)

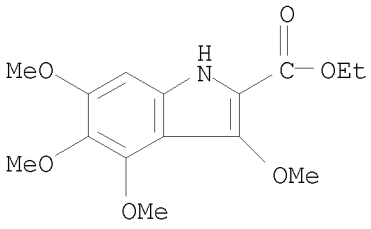
RN 795-81-3 CAPLUS
CN 3-Indolinecarboxylic acid, 3-hydroxy-4,5,6-trimethoxy-2-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



RN 855604-65-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2,3-dihydro-4,5,6-trimethoxy-3-oxo-, ethyl ester (CA INDEX NAME)



RN 858233-74-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 3,4,5,6-tetramethoxy-, ethyl ester (CA INDEX NAME)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